Uniview High Resolution Analog Cameras Instructions

Contents

High-Resolution Analog Cameras

Specifications

- Manual Version: V1.04
- Features: Zoom and focus in 2.1 PTZ Control, Video Format settings, 485 Settings

Revision History

Manual Version	Description
V1.04	Add zoom and focus in 2.1 PTZ Control
V1.03	Delete OSD DIP category in chapter 3.2 Video Format; delete DIP switch hyperlinks in chapter 3.4 485 Settings.
V1.02	Add video format
V1.01	Add PTZ and 485 settings
V1.00	Initial release

Thank you for your purchase. If you have any questions, please do not hesitate to contact your dealer.

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Safety Instructions

Be sure to read this manual carefully before use and strictly comply with this manual during operation. The illustrations in this manual are for reference only and may vary depending on the version or model. The screenshots in this manual may have been customized to meet specific requirements and user preferences. As a result, some of the examples and functions featured may differ from those displayed on your monitor.

- This manual is intended for multiple product models, and the photos, illustrations, descriptions, etc., in this manual may be different from the actual appearances, functions, features, etc., of the product.
- Uniview reserves the right to change any information in this manual without any prior notice or indication.
- Due to uncertainties such as physical environment discrepancies may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.
- Users are fully responsible for the damages and losses that arise due to improper operations.

Environmental Protection

This product has been designed to comply with the requirements of environmental protection. For the proper storage, use, and disposal of this product, national laws and regulations must be observed.

Safety Symbols

The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.y

Symbol	Description
WARNING!	Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.
CAUTION!	Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
NOTE!	Indicates useful or supplemental information about the use of product.

NOTE

- The on-screen display and operations may vary with the DVR to which the analog camera is connected.
- The contents of this manual are illustrated based on a Uniview DVR.

Startup

Connect the analog camera's video output connector to the DVR. When the video is displayed, you can proceed to the following actions.

Control Operations

Choose PTZ Control or OSD Menu to perform operations. This manual takes PTZ Control as an example.

PTZ Control

Choose PTZ Control and the control page is displayed.

The relevant buttons are described below.

Button	Function
/	• Select menu items on the same level. • Control the PTZ camera to rotate up or down.
/	• Choose a value or switch mode. • Control the PTZ camera to rotate left or right.
/ / /	Adjust the rotation direction of the PTZ camera.
+ Iris	• Open OSD menu. • Enter sub-menu. • Confirm a setting.
+ Zoom −	Zoom in or out on images.

Button	Function
+ Focus −	Focus far or near for clear images at a distance/at close range.
PTZ Speed	Adjust PTZ speed through 485 serial port.

OSD Menu Control

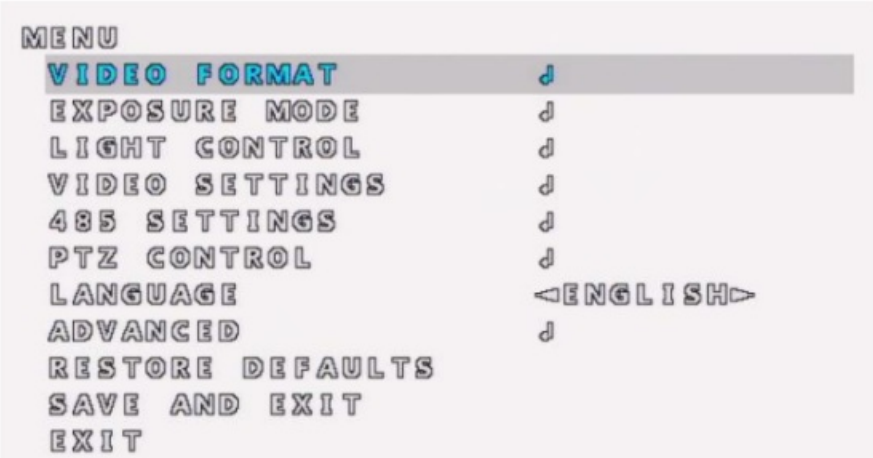
Choose OSD Menu Control and the control page is displayed.

- Select menu items on the same level.
- Choose a value or switch mode.
- Open OSthe D menu; enter the sub-menu; confirm a setting.
- Back to the main menu.

Parameter Configuration

Main Menu

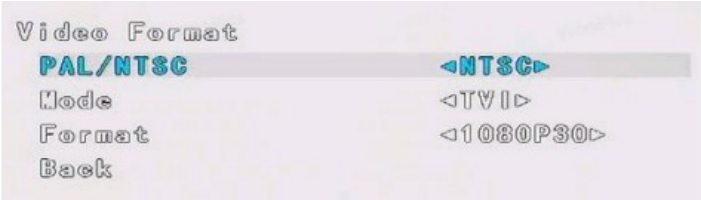
Click Iris. The OSD menu that appears.



NOTE
The OSD menu exits automatically if there's no user operation in 2 minutes.

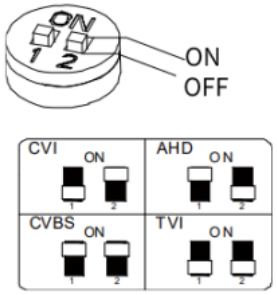
Video Format
Set the transmission mode, resolution, and frame rate for the analog video.

1. On the main menu, click / to select Video Format, click Iris . The video format page is displayed.



2. Click / to switch items, click < / > to set the video format

NOTE: For cameras with DIP switches on the tail cable, you can use the DIP switches to change the video mode.



1	2	Video Mode
OFF	ON	CVI
ON	OFF	AHD
ON	ON	CVBS
OFF	OFF	TVI

TVI: Default mode, which provides optimum clarity.

AHD: Provides long transmission distance and high compatibility.

CVI: The clarity and transmission distance between TVI and AHD.

CVBS: An early mode, which provides relatively poor image quality, including PAL and NTSC.

3. Select SAVE AND RESTART, click Iris to save the settings, and restart the device.

Image Settings

Exposure Mode

Adjust exposure mode to achieve the desired image quality.

1. On the main menu, click / to select EXPOSURE MODE, click Iris . The EXPOSURE MODE page is displayed.

2. Click / to select EXPOSURE MODE, and click < / > to choose an exposure mode.

Mode	Description
GLOBAL	Default mode. The exposure weight takes the brightness of the entire image into account.
BLC	The camera divides the image into multiple areas and exposes these areas separately, so as to effectively compensate for the relatively dark subject when shooting against the light.

Mode	Description
	Note: In this mode, you can click < / > to adjust the backlight compensation level. Range: 1-5. Default: 3. The greater the value, the stronger the suppression of ambient brightness.
DWDR	Suitable for scenes with high contrast between bright and dark areas on the image. Turning it on enables you to clearly see both the bright and dark areas on the image.
HLC	Used to suppress strong light to improve image clarity.

3. If the power frequency is not a multiple of the exposure frequency at each line of the image, ripples or flickers appear on the image. You can address this issue by enabling ANTI-FLICKER. Click ^ / v to select ANTI-FLICKER, and click < / > to choose the power frequency.

   NOTE Flicker refers to the following phenomena caused by the difference in the energy received by the pixels of each line of the sensor.

   There's a great difference in brightness between different lines of the same frame of image, causing bright and dark stripes.

   There's a great difference in brightness in the same lines between different frames of images, causing obvious textures.

   There's a great difference in the overall brightness between the successive frames of images.

Mode	Description
OFF	Default mode.
50HZ/60HZ	Eliminates flickers when the power frequency is 50Hz/60Hz.

4. Click ^ / v to select BACK, click + Iris to exit the page,e and return to the OSD menu.
5. Click ^ / v to select SAVE AND EXIT, click + Iris to save the settings, and exit the OSD menu.

Day/Night Switch

Use a night switch to turn on or off the IR light to improve image quality.

NOTE This feature is only applicable to IR cameras.

1. On the main menu, click ^ / v to select DAY/NIGHT SWITCH, click + Iris . The DAY/NIGHT SWITCH page is displayed.

2. Click < / > , and choose a day-night switch mode.

Parameter	Description
AUTO	Default mode. The camera automatically turns on or off IR according to ambient lighting to get the best images.
DAY	The camera uses bright light in the environment to provide color images.
NIGHT	The camera uses infrared to provide black and white images in low light environment. **Note:** In night mode, you can turn on/off the IR light manually. By default the IR light is turned on.

3. Click ^ / v to select BACK, click + Iris to exit the page, and return to the OSD menu.
4. Click ^ / v to select SAVE AND EXIT, click + Iris to save the settings, and exit the OSD menu.

Light Control

NOTE: This feature is only applicable to full-color cameras.

1. On the main menu, click ^ / v to select LIGHT CONTROL, click + Iris . The LIGHT CONTROL page is displayed.

2. Click < / > , and choose a light control mode.

Parameter	Description
AUTO	Default mode. The camera automatically uses the white light for illumination.
MANUAL	Click < / > , set illumination intensity level. Range: 0 to 10. 0 means "off", and 10 means the strongest intensity. The light intensity is 0 when you select MANUAL mode for the first time. You can change and save the setting as needed.

3. Click ^ / v to select BACK, click + Iris to exit the page, and return to the OSD menu.
4. Click ^ / v to select SAVE AND EXIT, click + Iris to save the settings, and exit the OSD menu.

Video Settings

1. On the main menu, click ^ / v to select VIDEO SETTINGS, click + Iris . The VIDEO SETTINGS page is displayed.

2. Set the video parameters.

Parameter	Description
IMAGE MODE	Choose an image mode, and image settings preset for this mode are displayed. You may also fine-tune the settings as needed. Click < / > to choose an image mode. STANDARD: Default image mode. VIVID: Increases saturation and sharpness on the basis of the STANDARD mode.

Parameter	Description
WHITE BALANCE	Adjust red gain and blue gain of the entire image according to different color temperatures to correct errors caused by ambient light to render images that are closer to the visual habits of human eyes. 1. Select **WHITE BALANCE**, click + Iris. The **WHITE BALANCE** page is displayed.  Click < / > to choose a white balance mode. AUTO: Default mode. The camera automatically controls red gain and blue gain according to ambient light. MANUAL: Manually adjust red gain and blue gain (both ranges from 0 to 255). Select **BACK**, click + Iris to return to the **VIDEO SETTINGS** page.
BRIGHTNESS	Image brightness. Click < / > to choose the value. Range: 1-10. Default: 5. The greater the value, the brighter the image appears.
CONTRAST RATIO	The black-to-white ratio in the image, that is, the gradient of color from black to white. Click < / > to choose the value. Range: 1-10. Default: 5. The greater the value, the more obvious the contrast.
SHARPNESS	Sharpness of the edges of the image. Click < > to choose the value. Range: 1-10. Default: 5 (STANDARD mode), 7 (VIVID mode). The greater the value, the higher the sharpness level.
SATURATION	Vividness of colors in the image. Click < > to choose the value. Range: 1-10. Default: 5 (STANDARD mode), 6 (VIVID mode) The greater the value, the higher the saturation.
DNR	Increase digital noise reduction to reduce noises in the images. Click < > to choose the value. Range: 1-10. Default: 5. The greater the value, the smoother the images.
2 NR	Reduce noise by individually analyzing each frame, which may cause image blur.
3 NR	Reduce noise by analyzing the difference between successive frames, which may cause image smearing or ghosting.
H-FLIP	Flips the image around its vertical central axis. Disabled by default.
V-FLIP	Flips the image around its horizontal central axis. Disabled by default.
DIGITAL DEFOG	Improve image visibility in foggy, hazy and other low-visibility scenes.

3. Click ^ / v to select BACK, click + Iris to exit the pa get t, and return to the OSD menu.
4. Click ^ / v to select SAVE AND EXIT, click + Iris to save the setting,ngs, and exit the OSD menu.

485 Settings

NOTE: After you complete 485 settings, select SAVE for the settings to take effect

1. On the main menu, click ^ / v to select 485 SETTINGS, and click + Iris. The 485 SETTINGS page is displayed.

2. Set the parameters.

Parameter	Description
PROTOCOL	Supports PELCO-P and PELCO-D.
ADDR Type	Supports ADDR-Hard and ADDR-Soft • ADDR-Hard: Use DIP switch (see Quick Guide) to configure address, and the software can read and display the hardware address. • ADDR-Soft: Configure address via OSD menu. Range: 0 to 255. Default: 0 **Note:** The DIP switch settings can take effect only after the device is powered off and restarted.
BR Type	Choose BR-Hard or BR-Soft. • BR-Hard: Use DIP switch (see Quick Guide) to configure baud rate, and the software can read and display the baud rate. • BR-Soft: Supports 9600bps/4800bps/2400bps/1200bps. The default is 9600bps. **Note:** The DIP switch settings can take effect only after the device is powered off and restarted.
PARITY	Configure parity check on OSD menu. The function is disabled by default.

3. Click / to select SAVE, click / to select SAVE, and then click Iris to confirm.

PTZ Control

This function is only available for PTZ cameras.

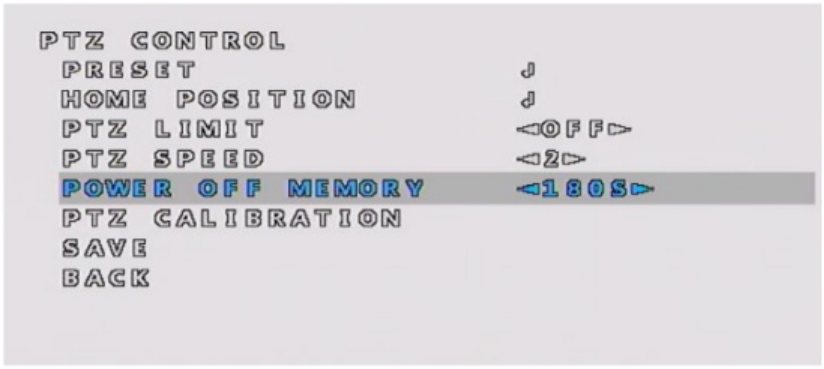
NOTE: After you complete PTZ settings, select SAVE for the settings to take effect.

Preset

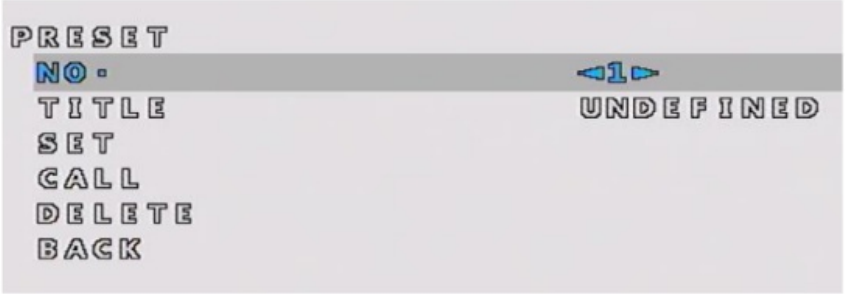
A preset position (preset for short) is a saved view used to quickly steer the PTZ camera to a specific position. Up to 32 presets are allowed.

Add Preset

1. On the main menu, click / to select EXand IT, and click Iris on to exit menu.
2. Use PTZ Control to rotate the camera direction.
3. Click Iris to go to the menu page.
4. Click / to select PTZ CONTROL, and click Iris . The PTZ CONTROL page is displayed.



5. Click / to select PRESET, and click Iris . The PRESET page is displayed.



6. Click < / > to select the preset number.
7. Click ^ / v to select SET, and click + Iris to confirm the settings.
8. Click ^ / v to select SAVE, and click + Iris to save the settings.

Call Preset

1. On the main menu, click ^ / v to select PTZ CONTROL, and click + Iris . The PTZ CONTROL page is displayed.
2. Click ^ / v to select PRESET, and click + Iris . The PRESET page is displayed.
3. Click < / > to select the preset number.
4. Click ^ / v to select CALL, and click + Iris to go to the preset.

Delete Preset

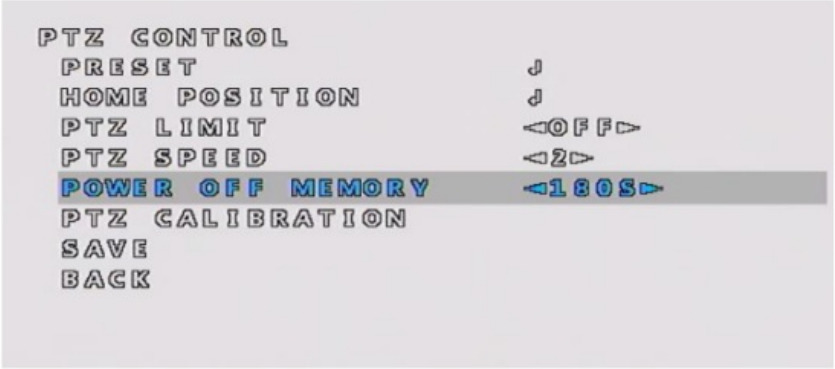
1. On the main menu, click ^ / v to select PTZ CONTROL, and click + Iris . The PTZ CONTROL page is displayed.
2. Click ^ / v to select PRESET, and click + Iris . The PRESET page is displayed.
3. Click < / > to select the preset number.
4. Click ^ / v to select DELETE, and click + Iris .
5. Click ^ / v to select SAVE, and click + Iris to delete the selected preset.

Home Position

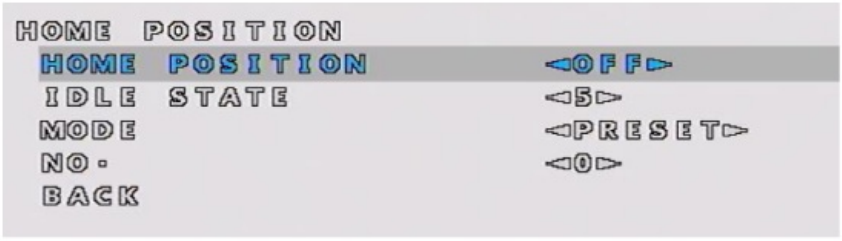
The PTZ camera can automatically operate as configured (e.g., go to a preset) if no operation is made within a specified period.

NOTE: Before use, you need to add a preset.

1. . On the main menu, click ^ / v to select PTZ CONTROL, and click + Iris .



2. Click ^ / v to select HOME POSITION, and click + Iris . The HOME POSITION page is displayed.



3. Click / to select HOME POSITION, and click < / > to select ON.
4. Click / to select IDLE STATE, and click < / > to set the idle duration. The range is from 1s to 720s.

   NOTE: To set another preset, please extend the idle duration appropriately or turn off the home position.
5. Click / to select MODE, and click < / > to select PRESET.
6. Click / to select NO., and click < / > to select the preset number.
7. After you change the settings, SAVE will appear on the page, click / to select SAVE, and then click + Iris to save the settings.

PTZ Limit

Filter out the undesired scenes by limiting the pan and tilt movements.

NOTE: The PTZ limit is turned off by default. The settings will not take effect after the device is restarted.

1. On the main menu, click / to select PTZ CONTROL, and click + Iris .
2. Click / to select PTZ LIMIT, and click < / > to select OFF, LEFT, RIGHT, TOP, or DOWN.
3. Click / to select SAVE, and click + Iris to save the settings. The settings will not take effect after the device is restarted.

PTZ Speed

Set the speed level for manually controlling the PTZ. It does not affect the speed of PTZ Calibration, Preset Calling, Home Position, etc.

1. On the main menu, click / to select PTZ CONTROL, and click + Iris .
2. Click / to select PTZ SPEED, and click < / > to adjust the speed. The range: is from 1 to 3. The default is 2. The higher the value, the faster the speed.
3. Click / to select SAVE, and click + Iris to save the settings.

Power Off Memory

The system records the last position of the PTZ in case of power failure. This function is enabled by default.

1. On the main menu, click / to select PTZ CONTROL, and click + Iris .

2. Click / to select POWER OFF MEMORY, and click < / > to set the time. You can choose 10s, 30s, 60s, 180s, and 300s. The default is 180s.

   NOTE: For example, if you set it to 30s, the system can record the last position where the device does not rotate for more than 30s before power failure.

3. Click / to select SAVE, and click + Iris to save the settings.

PTZ Calibration

Check for PTZ zero point offset and perform calibration.

1. On the main menu, click / to select PTZ CONTROL, and click + Iris.
2. Click / to select PTZ CALIBRATION, and click + Iris. The PTZ camera will perform rectification immediately.

   NOTE: The range of PTZ calibration depends on the device limit points. After calibration, the PTZ camera will return to Home Position if applicable. If not applicable, it will return to the position of Power-off Memory.

Language

Choose the desired language as needed.

1. On the main menu, click / to select LANGUAGE, and click + Iris to select the desired language.

2. Click / to select SAVE AND EXIT, click + Iris to save the settings, and exit the OSD menu.

Advanced Functions

View firmware version information.

1. On the main menu, click to select ADVANCED, and clclickThe ADVANCED page is displayed.

2. Set the parameters.

Parameter	Description
AUDIO INPUT	Supports audio collection and transmission. **Note:** Audio is enabled by default. The device restoration will not affect this configuration item.
FIRMWARM VERSION	View the device firmware version.

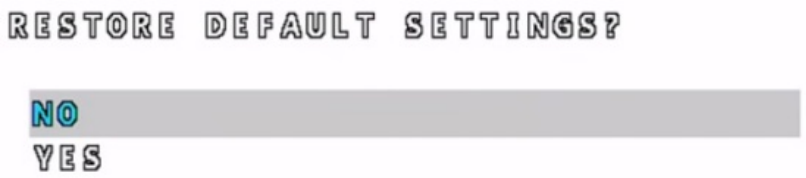
Parameter	Description
PTZ VERSION	View the device PTZ version.
RESTORE DEFAULTS	Restore the default settings for advanced functions.

3. Click / to select BACK, click + Iris to exit the page, and return to the OSD menu.
4. Click / to select SAVE AND EXIT, click + Iris to save settings, and exit the OSD menu.

Restore Defaults

Restore default settings of all the parameters of the current video format except video format, switch mode, language, audio, 485 settings, and PTZ control.

1. On the main menu, click / to select RESTORE DEFAULTS, click. The RESTORE DEFAULTS page is displayed.



2. Click / to select YES and then click + Iris to restore all the settings in the current video format to defaults, or click / to select NO and then click + Iris to cancel the operation.

Exit

On the main menu, click / to select EXIad, and click + Iris to exit the OSD menu without saving any changes.

FAQs

Q: What should I do if I encounter issues with zoom or focus settings?
A: If you experience problems with zoom or focus, ensure that the camera is properly connected and try adjusting the settings again. If issues persist, contact customer support for assistance.

Documents / Resources

	Uniview High Resolution Analog Cameras [pdf] Instructions High Resolution Analog Cameras, Resolution Analog Cameras, Analog Cameras, Cameras

References

- User Manual

Manuals+, Privacy Policy

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