Analog Cameras User Manual

Manual Version: V1.00

Revision History

Manual Version	Description
V1.00	Initial release

uniview

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.

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● Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides 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 on 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.

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.

Contents

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

1 Startup

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

2 Control Operations

Right-click anywhere on the image, choose PTZ Control. The control page is displayed.

The buttons ⌃, ⌄, ＜, ＞, ＋ Iris are described below.

Button	Function
⌃ / ⌄	Select menu items on the same level.
＜ / ＞	• Choose a value. • Switch modes.
＋ Iris	• Open OSD menu. • Enter sub-menu. • Confirm a setting.

3 Parameter Configuration

3.1 Main Menu

Click [+ Iris]. The OSD menu appears.

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

Figure 3-1 Menu of IR Camera

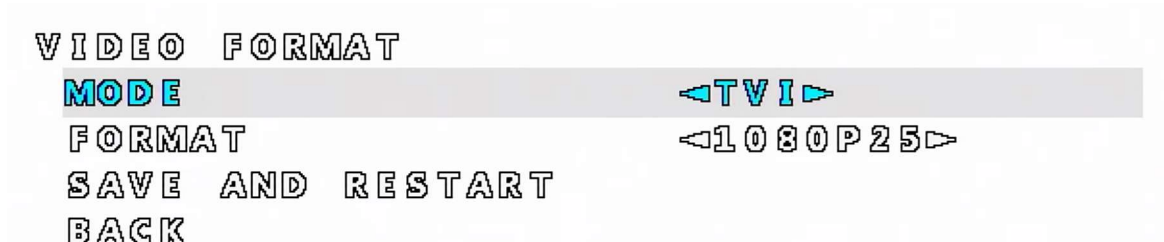Figure 3-2 Menu of Full Color Camera

3.2 Video Format

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

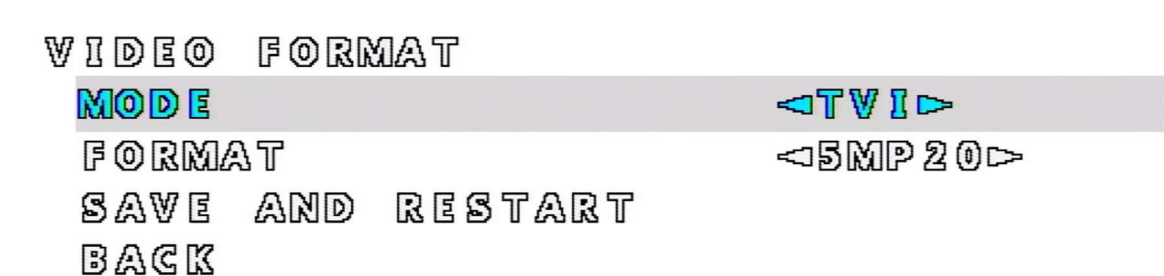1. On the main menu, click [∧] / [∨] to select **VIDEO FORMAT**, click [+] [Iris]. The **VIDEO FORMAT** page is displayed.

2MP: Default Mode: TVI; Default Format: 1080P25.

Figure 3-3 2MP Video Format Page

```
VIDEO  FORMAT
    MODE                        ◁TVI▷
    FORMAT                      ◁1080P25▷
    SAVE  AND  RESTART
    BACK
```

5MP: Default Mode: TVI; Default Format: 5MP20.

Figure 3-4 5MP Video Format Page

```
VIDEO  FORMAT
    MODE                        ◁TVI▷
    FORMAT                      ◁5MP20▷
    SAVE  AND  RESTART
    BACK
```

2. Set the video format parameters.

Item	Description
MODE	Analog video transmission mode. Click [<] / [>] to select a mode: ● TVI: Default mode, which provides optimum clarity. ● AHD: Provides long transmission distance and high compatibility. ● CVI: The clarity and transmission distance are between TVI and AHD. ● CVBS: An early mode, which provides relatively poor image quality.

FORMAT	Includes resolution and frame rate. The formats available to 2MP and 5MP resolutions are different (see below). Click [<] / [>] to select a format.
	● 2MP:
	  ➤ TVI/AHD/CVI: 1080p@30, 1080p@25fps, 720p@30fps, 720p@25fps.
	  ➤ CVBS: PAL, NTSC.
	● 5MP:
	  ➤ TVI: 5MP@20, 5MP@12.5, 4MP@30, 4MP@25, 1080P@30, 1080P@25.
	  ➤ AHD: 5MP@20, 4MP@30, 4MP@25, 1080P@30, 1080P@25.
	  ➤ CVI: 5MP@25, 4MP@30, 4MP@25, 1080P@30, 1080P@25.
	  ➤ CVBS: PAL, NTSC.

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

   Or select **BACK**, click [+ Iris] to exit the current page and return to the OSD menu.

3.3 **Exposure Mode**

Adjust exposure mode to achieve the desired image quality.

1. On the main menu, click [^] / [v] to select **EXPOSURE MODE**, click [+ Iris].
   The **EXPOSURE MODE** page is displayed.

Figure 3-5 EXPOSURE MODE Page

2. Click [^] / [v] to select **EXPOSURE MODE**, 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. **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**, 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 ⌃ / ⌄ to select **BACK**, click ⊞ Iris to exit the page and return to the OSD menu.

5. Click ⌃ / ⌄ to select **SAVE AND EXIT**, click ⊞ Iris to save the settings and exit the OSD menu.

3.4 Day/Night Switch

Use day/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 ⌃ / ⌄ to select **DAY/NIGHT SWITCH**, click ⊞ Iris . The **DAY/NIGHT SWITCH** page is displayed.

Figure 3-6 DAY/NIGHT SWITCH Page

DAY/NIGHT SWITCH
MODE   ◄DAY►
BACK
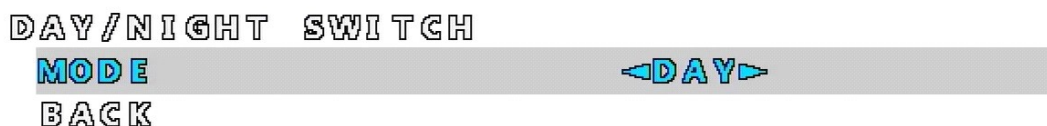
2. Click ˂ / ˃ , choose a day/night switch mode.

Parameter	Description
AUTO	Default mode. The camera automatically turns on or off IR according to ambient lighting to get the best images.

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Parameter	Description
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 [∧] / [∨] 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 the settings and exit the OSD menu.

3.5 Light Control

NOTE!
This feature is only applicable to full color cameras.

1. On the main menu, click [∧] / [∨] to select **LIGHT CONTROL**, click [+ Iris]. The **LIGHT CONTROL** page is displayed.

Figure 3-7 LIGHT CONTROL Page

```
LIGHT CONTROL
  MODE                    ◄AUTO►
  BACK
```

2. Click [<] / [>], 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 [∧] / [∨] 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.

3.6 Video Settings
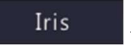
1. On the main menu, click [^] / [v] to select **VIDEO SETTINGS**, click [+ Iris]. The **VIDEO SETTINGS** page is displayed.

Figure 3-8 VIDEO SETTINGS Page

```
VIDEO SETTINGS
    IMAGE MODE            ◄STANDARD►
    WHITE BALANCE         ♪
    BRIGHTNESS            ◄10►
    CONTRAST             ◄5►
    SHARPNESS            ◄5►
    SATURATION           ◄5►
    DIGITAL NR           ◄5►
    H-FLIP               ◄OFF►
    V-FLIP               ◄OFF►
    BACK
```

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.

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.
	
	``WHITE BALANCE
	    MODE ◄AUTO►
	    BACK```
	
	2. 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).
	
	3. Select **BACK**, click [+ Iris] to return to the **VIDEO SETTINGS** page.

Parameter	Description
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.
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.

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.

3.7 Language

The camera provides 11 languages: English (default language), German, Spanish, French, Italian, Japanese, Korean, Polish, Portuguese, Russian, and Turkish.

1. On the main menu, click [^] / [v] to select **LANGUAGE**, click [<] / [>] to select the desired language.

Figure 3-9 LANGUAGE Page

LANGUAGE   ◁ENGLISH▷

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

3.8 Advanced Functions
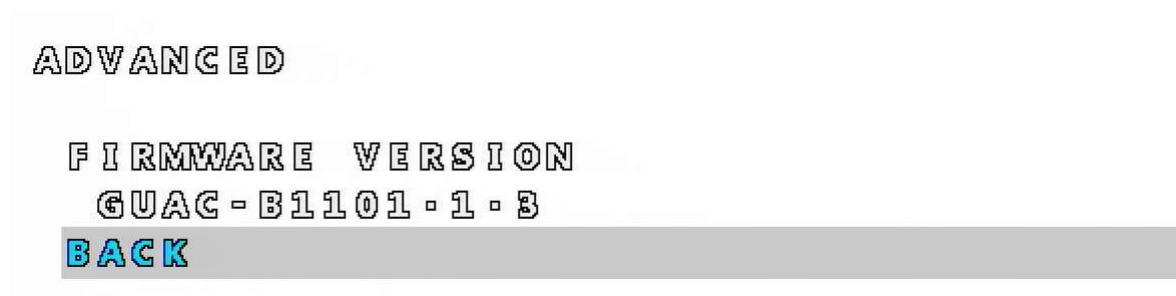
View firmware version information.

1. On the main menu, click [^] / [v] to select **ADVANCED**, click [+ Iris]. The **ADVANCED** page is displayed.

Figure 3-10 ADVANCED Page

2. Click [^] / [v] to select **BACK**, click [+ Iris] to exit the page and return to the OSD menu.

3. Click [^] / [v] to select **SAVE AND EXIT**, click [+ Iris] to save the settings and exit the OSD menu.

3.9 Restore Defaults

Restore default settings of all the parameters of the current video format except video format and language.
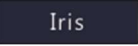
1. On the main menu, click [^] / [v] to select **RESTORE DEFAULTS**, click [+ Iris]. The **RESTORE DEFAULTS** page is displayed.

Figure 3-11 RESTORE DEFAULTS Page
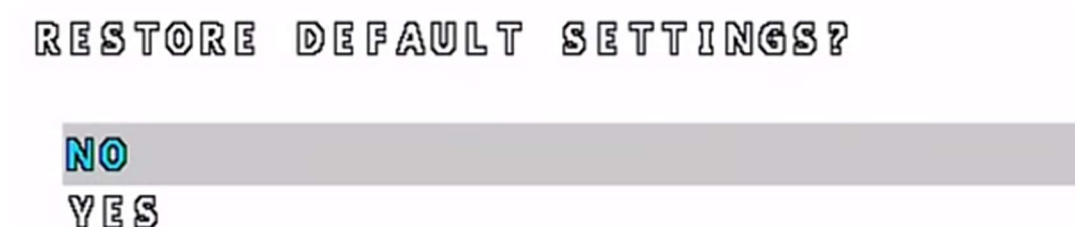
2. Click / to select **YES** and then click to restore all the settings in the current video format to defaults, or click / to select **NO** and then click to cancel the operation.

3.10 Exit

On the main menu, click / to select **EXIT**, click to exit the OSD menu without saving any changes.

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