



- **Brightness:** This slider is used to adjust playback and recorded video window brightness. The value ranges from 0 to 128. The default value is 64. The larger the number, the brighter the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high.
- **Contrast:** This slider is used to adjust playback and recorded video window contrast. The value ranges from 0 to 128. The default value is 64. The larger the number is, the higher the contrast is. You can use this function when the whole video brightness is OK but the contrast is not correct. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over expose.
- **Saturation:** This slider is used to adjust playback and recorded video window saturation. The value ranges from 0 to 128. The default value is 64. The larger the number, the stronger the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the gray part of the video, distortion may occur if the white balance is not accurate. Please note the video may not be clear if the value is too low.
- **Sharpness:** This slider is used to adjust the sharpness of the video. The value ranges from 0 to 128. The larger the value is, the clearer the edges are and vice versa. Note: The higher the value, the higher likelihood of picture noise occurring.
- **Flip:** This dropdown box allows the user to flip the video feed picture. Flipping the picture is recommended only if the camera is mounted upside down.
- **Anti-Flicker:** These radio buttons allow the user to select what type of anti-flicker technology should be used for the video feed. The three options are 64 Hz, 60 Hz, and Outdoor. The desired option should offset any flickering effect caused by the electrical

current used in the specific area.

- **Shutter Mode:** Auto setting lets you select your shutter speed automatically. Selecting Manual will let you adjust the shutter speed manually.
- **2D NR:** This radio button allows the user to turn the 3D Noise Reduction feature on or off.
- **3D NR:** This slider allows the user to specify the 3D Noise Reduction level. The value ranges from 1-128.

To reset to default settings, click the Reset Defaults button. To refresh the screen, click on Refresh. To save the settings, click the Save button.

- **BLC:** backlight compensation: Default will use the whole image to balance the lighting settings, and Customized will allow you to balance the lighting settings from the target area.
- **WDR:** Wide Dynamic Range makes multiple scans of a scene to provide one balanced and unwashed image that is clear for the user.
- **HLC:** Highlight compensation is a feature that came out of necessity due to overexposure from strong light sources like headlights or spotlights.

#### **WB Mode:**

This dropdown box allows the user to select the white balance for the video feed. The different options are Auto, Manual. Selecting customized opens a menu that allows the user to set specific red or blue values.

**Power Frequency:** Select 50Hz/60Hz depending your city power system if the image flicker

#### **IR-Cut Mode:**

This dropdown box allows the user to select how to control the IR-CUT and image day night switch. The different options are Auto, Timing, External and Manual. This setting is usually set External by default within the camera.

#### **Advanced Image Options**

**Light Mode:** The drop-list should keep default, it's determined by camera hardware (Pure white light, Pure Infrared light, Both white light & IR)

**Light Image Option:** The different options are Normal, Prevent face overexpose, license plate mode series. Normal mode night image is more brilliant than other two modes. The face overexpose mode can decrease the face overexpose and get a more clear face image, but the other area maybe dark.

**Light Off Sensitivity:** the range is 1-100, the higher value the light will turn off sooner.

**LED Brightness Mode:** Auto, Manual, Power Restricted Auto are available.

**LED Brightness:** Set the LED power by percent ( 0-100%)

**LED Delay:** Set the light turn on condition when the illumination changed(0.01-1.5 LUX)

**Image Mode:** The different options are Normal, Forced Frame Rate and Super Star light.

In Normal mode the camera will decrease the fps to obtain a good image quality in dark

environment. Keep Frame Rate selection will not auto change the fps anytime , the dark image quality will be lower than Normal mode. Super Starlight selection will auto change the fps to very low to get a brilliant image view in dark , the dark image quality will be better than Normal mode, but fps will be lowest.

To reset to default settings, click the Reset Defaults button. To refresh the screen, click on Refresh. To save the settings, click the Save button.