

## NOX TIPS and POINTERS

### IMAGE OPTIMIZATION

Based on differing environmental conditions and general user preference, certain measures can be taken to optimize the image seen through the NOX. All parameters related to image optimization are located in under **Menu** -> **Video Settings**.

**BRIGHTNESS:** Changes the brightness of the display.

**CE** Increasing Contrast Enhancement (CE) helps to distinguish fine image details in low thermal contrast conditions, but setting the value too high will lead to a grainy image. Setting the CE Level between 0- 2 works best for average conditions.

**SHARPNESS** Increasing image sharpness makes details of the image more pronounced but setting it too high may lead to loss of finer details.

**GAMMA** Changing the Gamma curve for the display will make the image appear darker or brighter. Gamma does not have any effect on image details. Default value is 1.

**ROI** Selects the most appropriate Region of Interest (ROI). For scanning, recommended setting ROI to Full. ROI ½ and ROI ¼ leads to the optimization of the image based, correspondingly, on the ½ or ¼ central part of the image. This will make the part of the image that is closer to the center look better but the peripheral parts of the image may become washed out.

**CALIBRATION** NOX only supports manual calibration. Calibration is performed by completely covering the objective lens and holding down the CAL button until the image appears to reset itself. The unit has to be calibrated when it is first turned on and later when the image quality degrades during use.

### MISCELLANEOUS

**FOCUS** NOX scopes have to be carefully focused for the best performance. Focus the NOX by rotating the Objective Lens Focusing Ring.

**DIOPTRER ADJUSTMENT** Adjust the focusing ring to achieve the best possible focus on the display screen. Make sure that the reticle is as sharp as possible.

**MULTIPLE ZEROES** Users can save up to four reticle positions by selecting one of the **Reticle Numbers** in the **Reticle Menu**. Each Reticle Number is saved with its Reticle Type and zeroing information. Performing a manual reset of the NOX will not affect saved zeroes.

**MENU ITEMS VISIBILITY** Note that at high values of Contrast Enhancements (CE) and Sharpness settings, menu font may appear dim or blurred. It is recommended to decrease CE and Sharpness settings if this causes issues with clarity. We

recommend setting CE and Sharpness values to 0-2 and only change them if it is necessary.

Menu fonts may be hard to read in Edge Detect mode (polarity). It is recommended to enter menu mode while in Black Hot or White Hot.

**BATTERIES** NOX takes one regular CR123 battery or 18650 battery (with battery extender). Select proper battery type under System Settings menu for accurate power level indication. Use reputable battery sources. Remove batteries after use.

**EXTERNAL POWER** NOX will work from any external USB power source (power banks/bricks, USB chargers, computer ports, as long as USB output is rated at least 1A).

**VERTICAL LINES ON THE SCREEN AFTER THE STARTUP** In some very rare cases, the user may observe vertical lines on the screen after the startup. This is related to the inner workings of the thermal imaging core. This is not considered a defect or failure of the system. To clean up the screen, simply cycle through the zoom.

**RESTORE TO FACTORY SETTINGS** Occasionally, the user may want to restore the NOX to original factory settings. In some cases this may help to improve the image quality. To restore the unit, while it is On, press and hold the -/Reset Switch for approximately 15 seconds until the unit turns off (image disappears). NOX will return to original factory settings upon powering back up.

**MOUNTS** NOX is shipped from the factory with both dovetail mount and weapon mount installed. The user may remove or replace one or both mounts if they are not needed or the dovetail mount has to be moved to the other side. Use 20 in-lb torque and we recommend using Vibra-Tite VC-3 Threadmate or similar thread locker. **WARNING: DO NOT EVER** use the dovetail mount or mounting hole for weapon mounting the NOX.

**ROTATION** It is necessary to move the dovetail mount to the weapon mount side for use on the left eye while the NOX is head mounted. Icon orientation is configured under the Systems Settings menu. **Note:** the NOX cannot be used as a weapon sight while icons are flipped. In this orientation the reticle is off and Reticle menu and Zero are disabled.

**WE ARE HERE TO HELP** If you have any questions about your NOX thermal scope, or need help with configuring or troubleshooting, please contact us. We will be glad to help you get the most out of your NOX.

You can email us at [info@nvisionoptics.com](mailto:info@nvisionoptics.com) or call 781-505-8360.