



# NIGHT PROWLER I

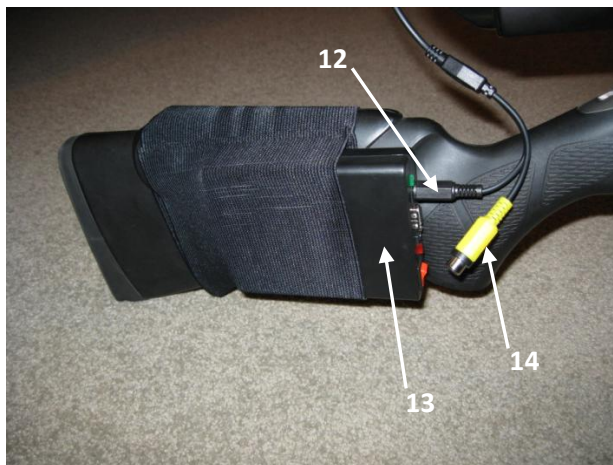
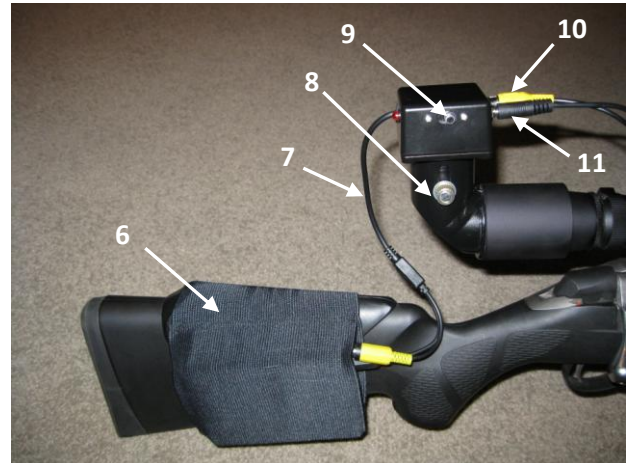
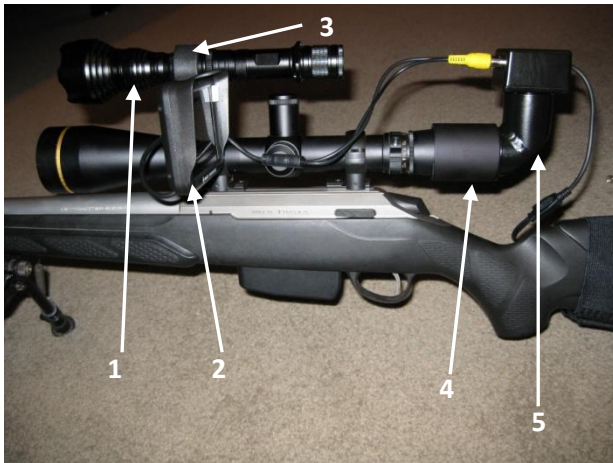
Digital Night Vision System

## INSTRUCTION MANUAL

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Please read these instructions carefully before use

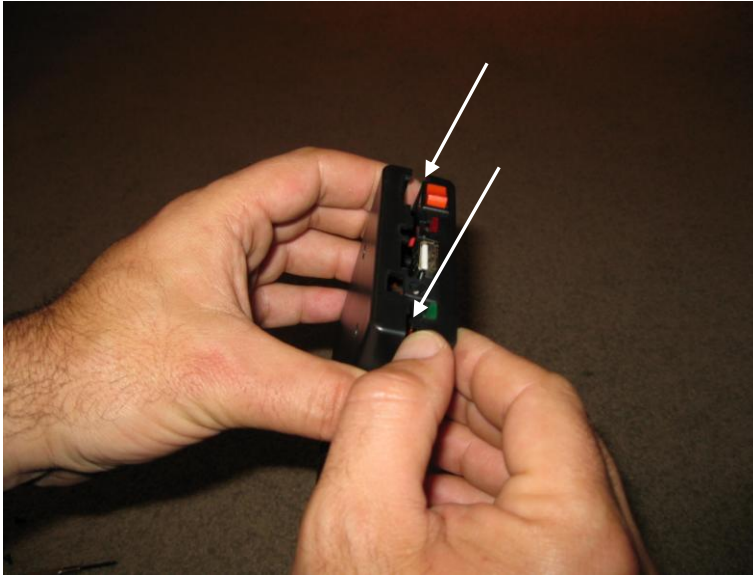
## Overview of System Setup



1. Infrared (IR) torch
2. LCD screen
3. Mounting bracket
4. Scope adaptor
5. Main body
6. Battery pack holder
7. Main loom
8. Slide adjustor
9. On/off switch
10. RCA output
11. Power output
12. Power plug
13. Battery pack
14. Auxiliary RCA output
15. LED indicators

## Mounting Instructions

1. Open the battery case by removing the two securing screws using a small Phillips head screwdriver. Gently separate the case at the points shown first, then pull cover forward slightly to remove.



2. Place fully charged batteries in holder as indicated, being careful to fit polarity in correct position.

**Note** – Failure to fit batteries in correct polarity may result in damage to the unit.

**DO NOT ATTEMPT TO CHARGE BATTERIES WHILST INSTALLED IN THE BATTERY BOX! BATTERIES MUST ONLY BE CHARGED IN THE DESIGNATED BATTERY CHARGER SUPPLIED. FAILURE TO CHARGE BATTERIES CORRECTLY MAY RESULT IN INJURY AND DAMAGE TO PERSONS, PROPERTY AND EQUIPMENT.**

3. Replace cover by using reverse procedure described for opening
4. Plug unit into the battery pack (as shown below) and turn switch on battery pack to on.



**Note** – The battery pack contains a 1A fuse to protect the circuitry within the unit. If the LED indicator on the battery pack fails to illuminate after being turned on, please check the polarity of the batteries and the fuse. If necessary, replace the fuse with the designated type only. Failure to replace with correct fuse may result in damage to the unit.

5. Attach battery pack holder to the stock (Velcro at the bottom) and carefully slide the battery pack into the pouch



6. Choose the appropriate sized adaptor for scope and attach to main body by carefully screwing together. Screw until finger tight.

**Note** - Care should be taken to align the two threads correctly so as not to cause damage to the threads. The threads should fit loosely while screwing together – immediately stop and realign components if pressure is required or any tightness is observed.

7. Slide the assembled unit over the ocular end of scope as shown.



- Place fully charged batteries in the torch, making sure that the positive end of the battery is placed in first. Failure to correctly align polarity may result in damage to the torch.



- Attach screen and torch to scope, making sure torch is aligned parallel to the scope.



Note – Right hand set up shown. For left hand operation, fit clamp upside down, swapping the position of the torch and scope in the clamp, and rotate the LCD screen 180 degrees.

10. Plug the lead from the LCD screen into the connections located at the front of the box located on top of the unit.



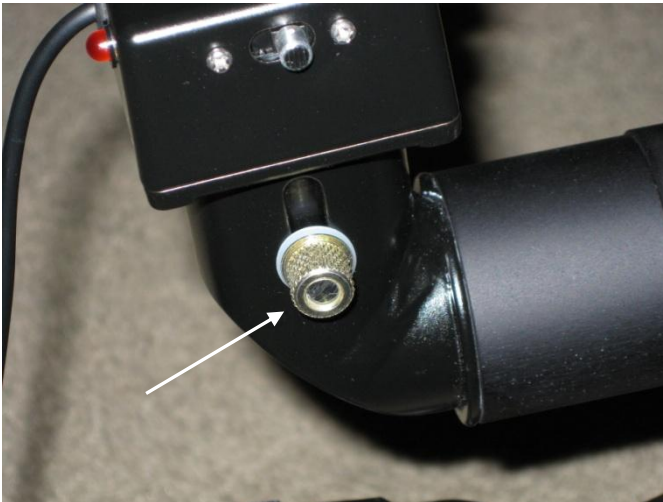
11. Turn unit on by pushing switch to rear of unit. Check that red LED located on rear of unit illuminates. A SLIGHT DELAY WILL BE ENCOUNTERED BEFORE ANY IMAGE IS DISPLAYED ON THE LCD SCREEN, THIS IS NORMAL.



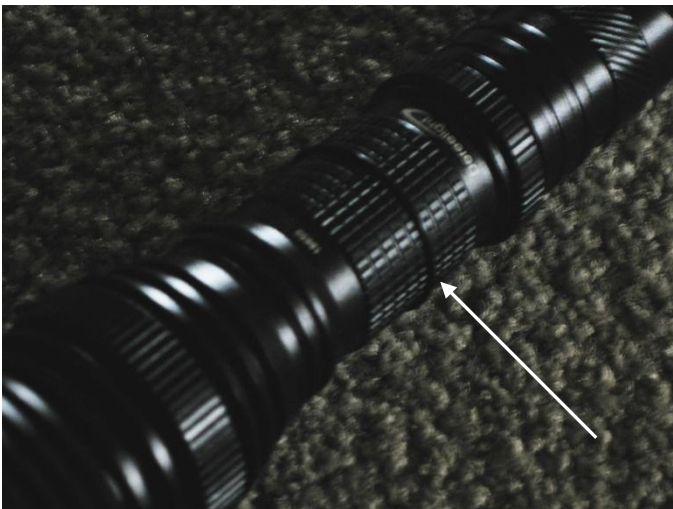
## Adjustments

Once the unit has been fitted and turned on, the following adjustments should be made.

1. The focus on the unit has been preset during manufacture. If the reticle of the scope appears fuzzy in the image on the LCD screen, this can be rectified by using the focusing system on the ocular bell of your scope. This is usually achieved by rotating the ocular bell left or right accordingly until the reticle is focused.  
Refer to manufacturer's scope manual for details.
2. Carefully rotate the adaptor (and unit) left or right, if necessary, until the crosshairs of the reticle in the image on the LCD screen are completely vertical/horizontal.
3. Adjust the position of the unit on the scope, if required, until the best image is obtained. Adjustments to focal length can also be made by loosening the knurled nut located on the side of the unit and sliding the box up or down to desired length and until the best image is achieved. Darkening around the edges of the image indicates an incorrect focal length and adjustments should be made accordingly.



4. Switch torch on and adjust position, so that maximum illumination is achieved in the image shown on the screen. If alignment is difficult, it is recommended to fit the small o-ring (supplied) to the body of the torch and retry.





5. The beam of the torch can be focused, by turning the head, to give desired effect. A flooded beam may be more appropriate for closer ranges, while a tight, focused beam is recommended for longer ranges.
6. If bleaching of the image occurs, the light intensity is too strong or the target is too close. Adjust the focus of the light until the best image is obtained. In extreme circumstances, the torch may be adjusted in the clamp so that the outer edges of the beam are used.

Note - For Nightmaster torches, light intensity can also be adjusted to low, medium and high using the push button on tail cap. Refer to manufacturer's instructions (included).

Conversely, if the image is too dark, after proper alignment is confirmed, the beam on the torch should be focused tightly.

7. Your unit is equipped with an extra video output plug (RCA type) located on the main lead, near the battery plug. This can be used to capture any image that is currently being displayed on the LCD screen. Any device that the unit is plugged into via this output must be capable of receiving an analog video signal and must have its own power supply.



## Using Your Unit

Please check with your local authority and local game regulations as to suitability of this product when used for hunting and shooting purposes. It is advisable to have pre-knowledge of the intended area prior to shooting at night. Ensure an adequate back stop is present. This product has been extensively tested on rimfire rifles and light recoiling centrefire firearms – it is not advisable for use with heavy recoiling cartridges, as injuries and damage to the unit may result.

The firearm may be held in the traditional manner with this unit fitted however, care should be taken to avoid contact with the metal body of the unit under recoil on firearms with heavier recoil. It is recommended to adopt a hold where the head is slightly away from the stock of the firearm and not behind the unit. Care should also be taken to ensure that the wire from the battery pack to the unit does not interfere with the normal operation of the firearm's action. It is advisable to secure any extra length of wire on the opposite side of any action movements. Tape or cable ties may be used to facilitate this if necessary. Always be sure that no wire or securing devices interferes with the safe and reliable operation of the trigger or safety mechanism on your firearm.

Care should be taken to clearly and positively identify your target and what is behind it BEFORE firing. This unit will dramatically increase the eye shine of many animals, both wild and domestic, due to the nature of infrared light and the sensitivity of the components used. It is NOT advisable to shoot at eye shine alone without clearly identifying your target first.

## Scopes fitted with Adjustable Objective (AO) or Side Focus (SF)

With the unit fitted and adjusted correctly, as described above, and with the torch aligned correctly, observe the image on the LCD screen. If the image appears out of focus, use the AO or SF adjustment on your scope until a sharp image is obtained.

The magnification ring on the scope may be used, as it would normally, to zoom into targets observed on the screen. Once the desired magnification has been set, use the AO or SF adjustment until a clear image is achieved. On scopes with a wide magnification range, a slight darkening of the image will be seen at high magnifications. This is normal and unavoidable, as the amount of infrared light passing through the many lenses of the scope is slightly diminished at higher magnifications. If excessive darkening occurs, it is recommended to try using the focal length adjustment knob described in the Adjustments section above or to fit the extension tube (supplied) to increase focal length and improve image brightness. The same method should be used if an unsatisfactory useable range is achieved whilst using the unit.

The scope and firearm may now be used as it would normally. The point of impact will not change with this device fitted.

## Variable Scopes (without AO or SF)

With the unit fitted and adjusted correctly, and with the torch aligned, observe the image on the LCD screen. If the image appears out of focus, the magnification ring should be adjusted until a clear image is obtained. Due to the nature of parallax error and factory settings by the scope manufacturer, it may not be possible to utilise the entire magnification range of the scope. Normally, the lower magnification range of variable non-adjustable parallax scopes gives the clearest images, but this may vary between different scopes. The amount of magnification able to be used will be determined by the particular scope being used.

If excessive darkening is observed whilst increasing the magnification, it is recommended to try using the focal length adjustment knob described in the Adjustments section above or to fit the extension tube (supplied) to increase focal length and improve image brightness. The same method should be used if an unsatisfactory useable range is achieved whilst using the unit.

The scope and firearm may now be used as it would normally. The point of impact will not change with this device fitted.

## Fixed Power Scopes

With the unit fitted and adjusted correctly, and with the torch aligned, observe the image on the LCD screen. If the image appears out of focus, this indicates that the target is too close. To achieve a clear image, the distance between the target and the scope will need to be increased. Due to the nature of parallax error and factory settings by the scope manufacturer, many fixed power scopes will not be able to utilise this unit at close ranges. Typically, fixed power scopes will create clear images (using this device) beyond 50m. This distance may vary between different types of scopes from different manufacturers. The minimum distance required to achieve a clear image will be directly related to the parallax setting of the scope.

If a darkened image is obtained when viewing past the minimum range described above, it is recommended to try using the focal length adjustment knob described in the Adjustments section above or to fit the extension tube (supplied) to increase focal length and improve image brightness.

The scope and firearm may now be used as it would normally. The point of impact will not change with this device fitted.

## Service and Warranty

This product is covered by a 12 month limited warranty for defects in manufacture from the date of purchase. The supplier (Manic Industries Australia Pty Ltd) accepts no responsibility for any injuries, loss of property or legal proceedings resulting from the use or misuse of this product.

There are no serviceable parts contained within the unit. If there are any problems with the operation of the unit, it should be returned to Manic Industries Australia Pty Ltd for repairs. Opening the unit will void all warranties and claims.

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