

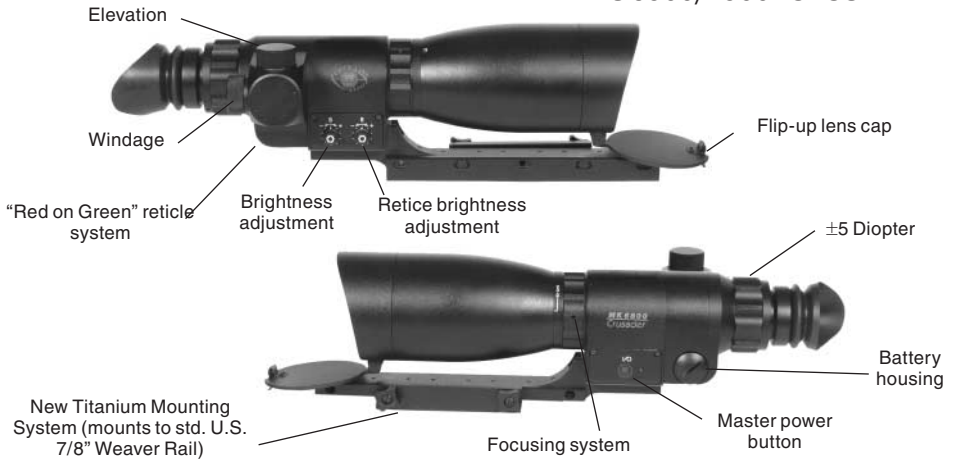
**Aries 390 “Paladin”**

**Aries 6900/7900 “Crusader”**



*u s e r ' s   g u i d e*

## ARIES 6900/7900 "CRUSADER"

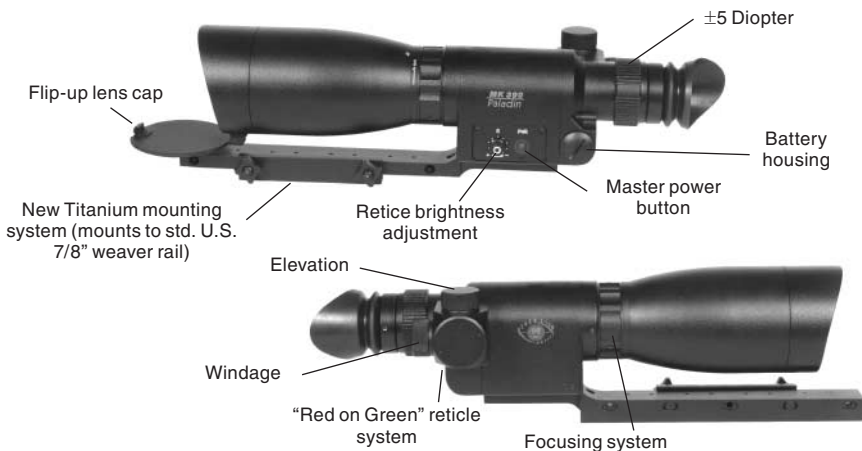


### DIGITAL INFRA-RED ILLUMINATOR

FREE ADD-ON FOR  
YOUR ARIES  
WARRIOR,  
GUARDIAN OR  
DEFENDER  
SCOPE



## ARIES 390 "PALADIN"



# APPLICATION

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Our new **Aries 390 “Paladin”** is the best 1<sup>st</sup> generation scope on the market.

We started by improving the optical configurations with lowered F-stop factors (from 1.7 on previous models to 1.4(!) on new) and optical resolution that is beyond current military standards (old 45lp/mm and the new is 60lp/mm). This provides you with the brightest and clearest image in a 1<sup>st</sup> gen unit. Then we added our precision “red on green” aiming system, easy push button operation, reticle brightness adjustment and our new detachable, most powerful in the industry 450mw Infrared Illuminator with dedicated windage and elevation adjustments.

Do you want the best NVD weapon sight on the market? If so then our new **Aries 6900/7900 “Crusader”** is for you. It doesn't get any better than the Aries 6900/7900 Crusader when it comes to performance. For the MK6900 we use a top of the line “Prime Select” US 2nd Gen.+ light intensifier tube for added light gain and resolution. Combine this select tube with 5x magnification and a super fast F:1.4 lens the image that you will get out of your Crusader is unbelievable.

The best optics, tubes and 3 year warranty makes the Aries 6900/7900 Crusader one of the best Night Vision weapon sights there is!

# FEATURES

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## **ARIES 390 “PALADIN”**

- Top-of-the-line First Generation weapon sight
- New, high resolution Gen. 1+ LIT.
- “Red on Green” reticle system with 1/8 inch @ 100yards adjustment
- 4X magnification with new F:1.4, f90mm lens
- New, detachable most powerful in the industry 450mWt Infrared Illuminator with dedicated windage and elevation adjustments.
- New Titanium mounting system
- Dimensions: 12”x4”x2.8”
- Weight: 2.8 lbs.

## **ARIES 6900/7900 “CRUSADER”**

- Top-notch performance with pro-oriented design
- 5X magnification with new F:1.4, f90mm lens
- “Red on Green” reticle system with 1/8 inch @ 100yards adjustment
- New Titanium mounting system
- Prime Select US 2nd Gen. (6900), Prime Select US 3rd Gen. (7900) tubes used
- Automatic brightness control(ABC) for tube protection
- Dimensions: 12”x4”x3”
- Weight: 2.8 lbs.
- Made in USA

# PREPARATION FOR OPERATION

Before getting started make sure to follow these steps:

- Install the battery into its housing with the polarity order shown on the main body of the unit.
- Switch on the Aries scope with the protective tens cover still attached to the tens.
- Make sure that the green luminance of the light intensifier tube is present.
- Observe the scene, and adjust the diopter and/or lens for optimal image clarity.
- You may now enter a dark environment or simply shut the lights off in order to darken the room.
- Next, remove the lens cap/daylight filter.

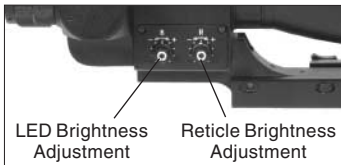
- Observe the scene, and adjust the front lens for ideal focus.
- Finally, you may want to turn the infra red (IR) illuminator on. Notice the ability of the Aries scope to see in total darkness with the aid of the IR illuminator.



## OPERATING

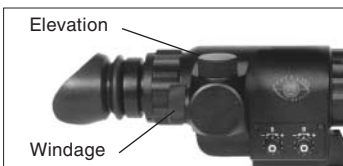
### BRIGHTNESS ADJUSTMENT

By rotating the "B" handle you may adjust the light intensifier tube's brightness. By rotating the "R" handle you may adjust the reticle's brightness. Adjustment could be easily seen if you look through the scope while adjustment.



### WINDAGE AND ELEVATION

The vertical and horizontal adjustments for the Aries can be achieved by turning the elevation and windage adjustment mechanisms (remove dust caps first). Each click equals to 1/8 inches at 100 yards. When reaching the maximum of rotation do not use force.



### MOUNTING

1. Slightly loosen the horizontal and vertical fixing screws on the 7/8" weaver rail built into the scope.
2. Place the scope on the dovetail mount of the fire arm making certain that the mount aligns with the receptor attachment screw groove. Adjust as necessary.
3. Tighten the horizontal fixing screws.

**NOTE:** Receptor attachment screws may need to be tightened after continuous shooting.

### FOCUSING

To focus your riflescope you will need to adjust the diopter first thing. Simply turn the diopter clockwise until it stops. Then, while looking through the diopter at a subject, slowly turn the diopter back counter clockwise until the grain in the image is sharp.

**NOTE:** We suggest that you focus the diopter during daylight with the filter on.

Next, focus the front lens until the image and the grain are both sharp. When you are in the low-light conditions and the daylight filter is off you may focus the front lens to receive a sharp image, the diopter should not be adjusted.

**NOTE:** The front lens should be readjusted as you view objects at different distances.

# IR ILLUMINATOR

Infra-red (IR) Illuminators are common for night vision technology. The IR light greatly enhances the performance of your Aries scope, while remaining almost totally invisible to the naked eye. In dark environment, power up the Aries scope. Now, find a scene and examine it without the IR on then with IR powered up. Note the difference in illumination. It is important to remember that the IR illuminator is simply an infra red light source, and like any light source it may lose its effectiveness over a great distance. To fix the IR Illuminator to the rifle scope screw the thumb screw on the IR into the thread on the scope.

To switch the IR on and to adjust the brightness rotate the rheostat located on the side of the Illuminator.

The changes of adjustment could be observed while looking through the scope.

The IR is off when the mark on the rheostat coincides with "0" on the scale.

**NOTE:** The rifle scope could be equipped with digitally controlled IR.

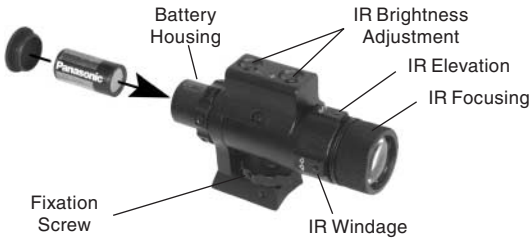
The IR illuminator control buttons are located on its side.

To switch the Digital IR illuminator on/off press "+" and "-" buttons simultaneously. When the IR illuminator is switched on you can see the green LED lit.

By pushing the buttons "+" and "-" you may adjust the IR brightness.

The IR beam is focusable to change the field of coverage. To change the beam width slightly turn the IR lens.

You could change the IR control panel fitting your needs. The screw-tool included into the set should be used for weakening the fixing screw located on the IR. Rotate the IR placing at in the most convenient position. Tighten the screw with the screw-tool to fix the new position



# RANGEFINDER RETICLE

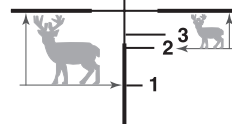
The range finder reticle in your Night Vision Riflescopes was designed to assist you in determining the range of your target.

These distances are based on a 6' target.

A 6' target fits between the numbered baseline (the three short horizontal lines directly next to the numbers) and the main horizontal line. If the 6' target fits between the 1 and the right horizontal post of the main line the target is 100 yards away. If the same target fits between the 2 and the right post of main line the target is 200 yards away. The same is with the three, the target is 300 yards away.

If a 6' target fits between these two lines then the target is 100 yards away.

If a 6' target fits between these two lines then the target is 200 yards away.



## CLEANING THE EYEPIECE

You may need to clean the eyepiece of the riflescope from time to time in order to guarantee top performance. When you receive your riflescope you should check for dust on the eyepiece of the unit.

First you will need to remove the eyepiece. To do that you will need to initially loosen the 2 set screws that can be found on the base. Then unscrew the eyepiece counter-clockwise to remove it.

**NOTE:** *You do not have to remove the set screws completely, they are very small and easy to misplace.*

**CAUTION:** *Use only Photographic lens cleaning tissue on these surfaces. Be careful not to scratch or smudge any of these surfaces. When using compressed air to blow dust away, make sure to avoid inverting the can while spraying. This can cause frozen propellant to exit the can, which can cause serious problems with the glass and phosphor screen.*

## WARNINGS AND CAUTIONS

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- Always remember to turn off the Aries scope when it is not in use. If you do not plan on using your aries scope for a period of more than 10 days, you should remove the batteries.
- **Keep lens cap/daylight filter on when not in use.**
- Avoid contact with dust, steam, and gas.
- The Aries scope are not harmful to the user or the environment.
- Do not disassemble except to clean the front lens and the eyepiece: **it will void your warranty.**
- Evaluate the scopes function by looking through it in a lit environment with the daylight filter lens cap on. Never use in daylight without the daylight filter lens cap on. Do not surpass ten minutes of testing.
- **Never point the Aries scope at a bright light source.** If the scope shuts off automatically after directing it at a bright light source, turn the unit off and wait 1 - 2 minutes before turning the unit back on.
- Adverse atmospheric conditions such as fog, smog, or haze and a lack of ambient light (moon or starlight) may diminish the effective viewing distance. All technical data for this unit was compiled in a controlled environment.

## TROUBLE SHOOTING

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**Q:** Flashes, flickers, or clicking occur while operating

**S:** If it occurs within the first five minutes of inserting new batteries, it is normal and the device will resume normal operation soon thereafter. If it occurs for more than 10 minutes, contact your dealer or other authorized service representative for service instructions.

**Q:** Dark spots on screen.

**S:** This may be dust on the lens, please clean according to instructions. They may also be Cosmetic blemishes in the intensifier tube which are a by-product of the manufacturing process. This is normal and will not affect the life or performance of the unit.

**Q:** Image not clear.

**S:** Adjust focus ring. If problem persists, increase viewing distance

**Q:** Fixed-pattern noise in a honeycomb shape.

**S:** Usually a cosmetic blemish characterized by a faint honeycomb-type pattern. This usually occurs when viewing very bright lights. Adjust the potentiometer, to reduce brightness.

**Q:** A pattern of dark thin lines which look like chicken wire.

**S:** Turn on illuminator, if purchased. If illuminator doesn't brighten image, replace batteries.