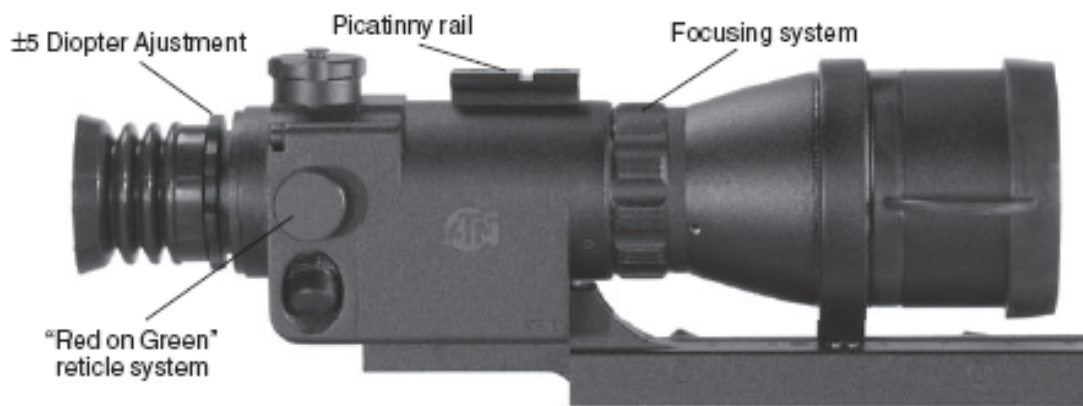
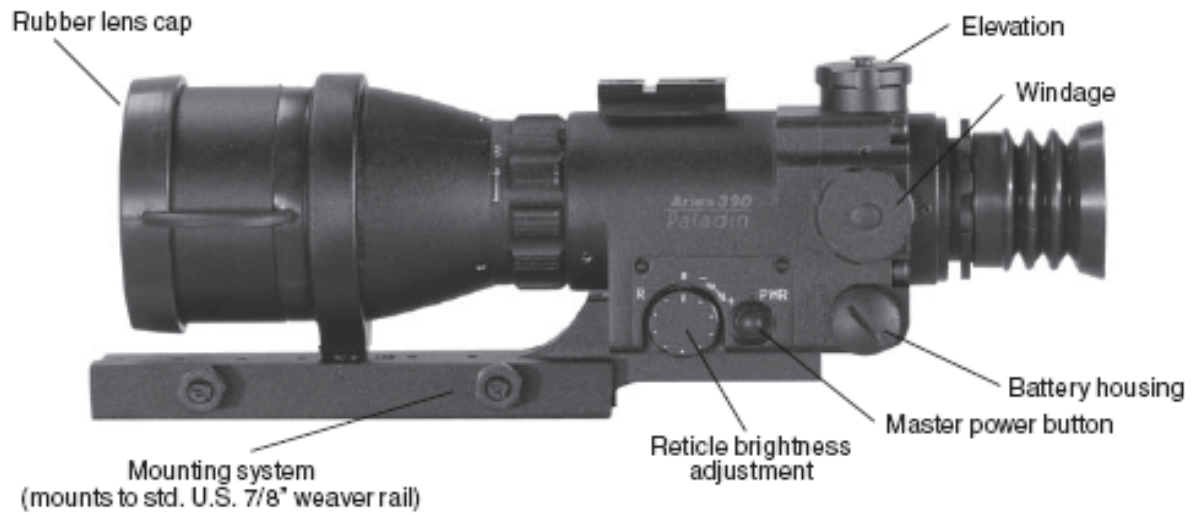


PALADIN-390M



u s e r ' s g u i d e



**DIGITAL
INFRA-RED
ILLUMINATOR**

FREE ADD-ON FOR
YOUR ARMES SCOPE



CAUTION:

THIS PRODUCT CONTAINS NATURAL RUBBER LATEX WHICH MAY CAUSE ALLERGIC REACTIONS.

APPLICATION

The new «Paladin-390M» is one of the best 1st generation night vision scopes on the market with precision elevation and windage adjustments, «red on green» aiming system, «Duplex» reticle with brightness adjustment and easy push button operation. There is a cermet image intensifier tube installed in the scope that is resistant to hard recoil. The scope is supplied with a powerful infrared illuminator with elevation and windage adjustment system. The «Paladin-390M» is intended for mounting on hunting smoothbore and rifled shotguns.

SPECIFICATIONS

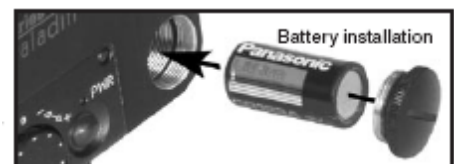
Generation	1
Photocathode sensitivity.....	from 350 to 450 μ A/lm
Resolution.....	from 57 to 60 lp/mm
Magnification.....	4
Objective lens diameter.....	62,5mm
FOV.....	12°
Click value.....	0,7 MOA
Focus range.....	from 4m to ∞
IR-illuminator.....	detachable
IR-illuminator power.....	100 mW
Dimensions.....	280×110×85mm
Weight.....	1,5 kg

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 scope with the protective lens cover still attached to the lens.
- 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 the scene and adjust the front lens for ideal focus.
- Finally you may want to turn the infrared illuminator on. Notice the



ability of the scope to see in total darkness with the aid of infrared illuminator.

OPERATING

Mounting

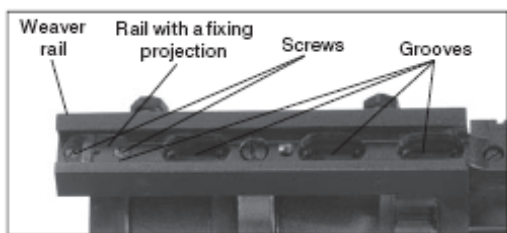
- 1.Slightly loosen the fixing screws on the 7/8” weaver mount built into the scope.
- 2.Place the scope on the weaver rail of the rifle.
- 3.Tighten the fixing screws.

NOTE: Fixing screws may need to be tightened after continuous shooting.

Mounting System

The Mounting System allows to change the position of the riflescope flexibly on the weapon in relation to a shooter in combination with the fixed positions already available on the weaver rail.

For this purpose in the base of the mounting bracket there is a rail with a fixing projection. There are three grooves in the mounting bracket for mounting this rail. Besides it is possible to change the position of the riflescope additionally by 1/3 of inch. For doing this one needs to about-face the rail. To change the position of the riflescope on the weaver rail additionally follow the steps mentioned below:



1. Unscrew the two screws, which attach the rail to the mounting bracket.
2. Take the rail out of the groove.
3. About-face the rail in case of necessity.
4. Place the rail into another groove.
5. Fix the rail with the two screws.

NOTE: If the rail does not come out easily, tighten one of the removed screws into the threaded aperture in the middle of the fixing projection of the rail. Rotate this screw, which will in turn push the rail out from the groove.

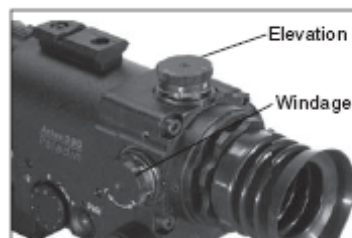
BRIGHTNESS ADJUSTMENT



By rotating «R» handle you may adjust the brightness of the reticle. Adjustment could be easily seen if you look through the scope while adjusting.

WINDAGE AND ELEVATION

The vertical and horizontal adjustments for the “Paladin-390M” can be achieved by turning the elevation and windage adjustment mechanisms (remove dust caps first). Each click equals 21mm at 100m.

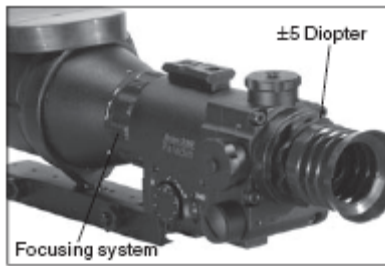


When reaching the maximum range of rotation do not use force.

FOCUSING

To focus your scope you will need to adjust the diopter first. 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 cap 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 shouldn't be adjusted.

NOTE: The front lens should be readjusted at different distances.

IR-ILLUMINATOR

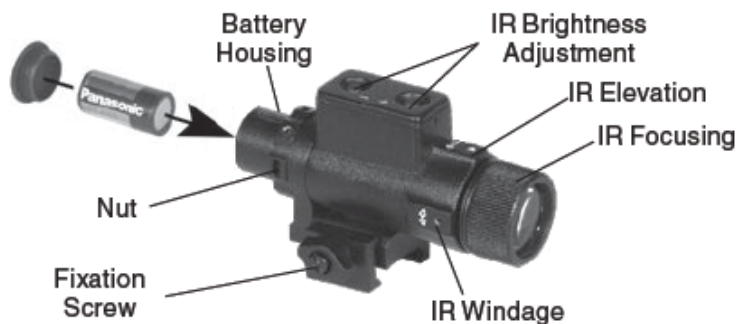
Infra-red (IR) Illuminators are common for night vision technology. The IR greatly enhances the performance of the Aries-390 "Paladin" scope while remaining almost totally invisible to the naked eye. In dark environment power up the scope. Now find a scene and examine it without the IR on then with IR 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 riflescope use the Picatinny rail of the scope.

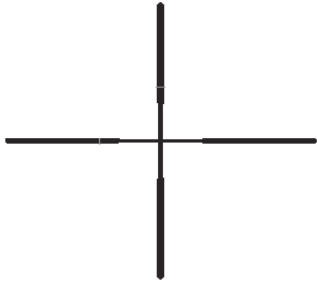
The IR illuminator control buttons are located on its side. To switch the Digital IR illuminator on/off press "+" and "-" buttons simultaneously. When the IR illuminator is switched on you can see the green LED lit. By pushing the buttons "+" and "-" you may adjust the IR brightness.

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

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



RETICLE



The “Paladin-390M” reticle type “Duplex” gives a clearly aiming point even when hard-to-see game blends into the background. Thinner posts and crosshairs center section covers a minimum of the target making precision shots on small target easily.

Heavy posts stand out against cover and lead your eye directly to the center intersection. The result is fast precision aiming.

CLEANING 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 scope you should check for dust on the eyepiece of the unit.

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

***NOTE:** You don't have to remove the set of 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

- Always remember to turn off the “Paladin-390M” scope when it is not in use. If you do not plan on using your scope for a period of more than 10 days, you should remove the batteries.
- Keep lens cap on when not in use.
- Avoid contact with dust, steam, and gas.
- The scope is not harmful to the user or the environment.
- Do not disassemble: **it will void your warranty.**
- Evaluate the scopes function by looking through it in a lit environment with the lens cap put on. Never use in daylight without the daylight filter lens cap on. Do not surpass ten minutes of testing.
- Never point the scope at a bright light source.
- 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.
- If you use the rubber eyecaps for a long period of time, you may suffer skin inflammation. If you develop any symptoms, consult a doctor immediately.

TROUBLESHOOTING

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 diopter 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.

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. If problem persists, contact COT for service instructions.