

NIGHTSTAR OPTICS

ULTRA SHORT ENCLOSED RED DOT SIGHT – PT23MS

PRODUCT MANUAL



WARNINGS

NEVER look directly at the sun through the sight.

ALWAYS ensure the firearm is unloaded and the safety is engaged before installing or adjusting the sight.

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MOTION ACTIVATION (SHAKE AWAKE)

The sight automatically enters sleep mode after 2 minutes of inactivity. The sight will instantly turn ON when motion is detected.

Note: If the sight is manually powered OFF, the motion activation function will also be disabled.



BATTERY LIFE

Battery life depends on brightness level: Up to 50,000 hours at low brightness settings

It is recommended to turn the sight OFF when not in use to maximize battery life.

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WINDAGE & ELEVATION ADJUSTMENT

Use the included tool to adjust: Turn in the direction you want the point of impact (POI) to move

Elevation: Counter-clockwise → impact moves UP

Windage: Counter-clockwise → impact moves RIGHT



1 Click=1MOA
Adjustment Value: ±50MOA

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TROUBLESHOOTING

1. Sight will not power ON

Check if the battery is depleted, ensure battery is installed correctly (+ facing out), clean contact points if necessary, make sure battery cover is fully tightened

2. Motion activation not working

If manually powered OFF, motion activation is disabled, leave the sight ON to allow sleep mode + auto wake function

3. Blurry dot

Focus on the target, not the dot, reduce brightness level, use corrective lenses if needed

4. Poor grouping

Ensure mount is securely installed, tighten all mounting screws properly

5. Glare / reflection

Some glare is normal due to lens coatings in reflex sights

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COMPATIBILITY

This red dot sight is compatible with a variety of firearm platforms, including rifles (AR-type), shotguns, and pistols.

POWER ON / OFF

Install one CR2032 battery: 1, Remove the battery compartment cover 2, Insert battery with the "+" facing outward 3, Reinstall and tighten the cover securely

Operation: Press "+" to power ON Press and hold "-" to power OFF

BRIGHTNESS ADJUSTMENT

10 brightness settings total: 8 daylight settings 2 night vision settings (for use with night vision devices)

Controls: Press "+" to increase brightness Press "-" to decrease brightness

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Shake awake Solar+Battery



Battery life : > 50,000 hr at lower level

SOLAR POWER FUNCTION

The sight operates on both battery and solar power:

In bright outdoor conditions: → Powered primarily by solar panel

In low light / indoor conditions: → Powered by battery

NOTE: The sight is powered by both solar energy and battery. In bright lighting conditions, the solar panel can power the sight even when the unit is turned OFF. When the sight is turned ON, it will automatically switch between solar power and battery power depending on ambient light conditions. Solar power performance depends on lighting conditions.

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MOUNTING INSTRUCTIONS

This sight comes with a high mount Install onto a Picatinny rail/base

Steps:

Position the sight with the objective lens facing forward

Ensure proper eye relief (minimum 4 inches recommended)

Tighten all screws securely using the included Torx wrench

All-Weather Protection



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PT23MS Parameter Table

Reticle Options	3 MOA
Solar Panel	Y
Motion Activate	1. Auto power off 2 minutes w/o motion. 2. Power on as soon as motion sensed.
Illumination Source	Highly efficient,
Objective Lens Dia	23mm
Lens Material	Multi-Coated Glass
Magnification	1X
Eye Relief	Unlimited
Parallax	±2MOA
Height of Optical Axis	40.4mm
Click Value	1 MOA
Total Elevation Range	±50 MOA
Total Windage Range	±50 MOA
Battery	CR2032, Side Load
Power Source	Battery + Solar
Battery Life	Low level 50,000 hrs+
Illumination Setting	8 daytime + 2 NV
Housing Material	CNC Aluminum Housing, 6061
Housing Surface	Anodized
Housing Color	Mat Black
Size (LxWxH)	52x42.7x58mm (w/ mount)
Weight	135g (w/ mount)
Waterproof	1M, 30min
Shockproof	1500Gs
Fogproof	Yes
Operating Temp.	-20°C ~ 40°C (-4°F ~ 104°F)
Storage Temp.	-30°C ~ 50°C (-22°F ~ 122°F)
Mount Type	High mount

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