

515CM

HOLOSUN®



User's Manual

Thank you for purchasing the HS515CM/HE515CM-GR micro tube style sight from HOLOSUN. The 515CM is equipped with non obstructing flip-up lens covers and kill flash. The sight may be installed on various firearms such as shotguns, pistols, rifles, air rifles and crossbows. Before operation, please read the User Manual carefully.

Model



Kill flash

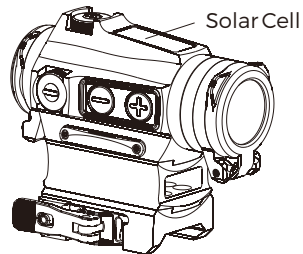


Fig1 HS515CM Micro Sight

WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- **Seek Immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



Important Notices

1. Ensure the firearm is unloaded and cleared by removing all ammunition and magazines from firearm and verifying an empty chamber before installation or battery replacement. **DO NOT ATTEMPT TO INSTALL THIS SIGHT KIT ON A LOADED FIREARM.**
2. Improper installation of firearm parts or accessories may result in death or serious personal injury. If you are not properly trained in the installation of these parts, have them installed by a gunsmith or armorer.
3. Please keep the packaging should you need to make a warranty claim.

Objective Lens

All reflex sights have an objective (front) lens that is positioned off axis and appears to be tilted when looking at the sight. This angle of the objective lens allows the light generated by the LED inside the unit to be reflected creating the aiming point. The reflected light becomes the "dot" or aiming reference that the user sees. (See Fig 2)

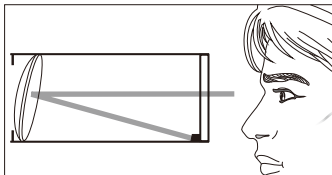


Fig 2

Features

1. Advanced LED technology: Up to 50,000 hours.
2. Two Reticle Options: 65MOA circle and 2MOA dot; 2MOA dot only.
3. Shake Awake™ - Motion on with last setting recall.
4. Advanced Super Solar Technology: Power is ready for use at all times, LED can be powered by solar cell.
5. Parallax free&unlimited eye relief.
6. 12 Brightness Settings: 8DL & 4NV .
7. Clear glass flip-back lens caps with an integrated kill flash.
8. CNC Milled 7075 Aluminum housing with hard anodized finish.
9. Comes with a 1.63"(lower 1/3 co-witness) Detachable QD mount.
10. Waterproof: IPX8.

Multi-Reticle System

The reticle for this sight is a 2MOA dot centered in a 65MOA circle with four positioning points. The diameter of the circle reticle represents approximately 5' 5" at 100 yards(170cm at 100m). While in manual mode, the circle reticle can be enabled or disabled as required by pressing the "-" button for 3 seconds. when the 65 MOA circle is turned off and the sight is switched to automatic mode, the 65MOA circle will return automatically in bright light. (See Fig 3)

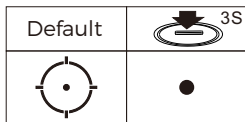


Fig 3

Battery

The product include "Warning: contains coin battery" icon (See Fig 4), please don't forcefully remove it.



Fig 4

1. Fail Safe operation with a dual power supply(solar component and battery). one high quality CR2032 Lithium battery is included with your sight.
2. A high quality battery can power the Circle-Dot for up to 20,000 hours, or on the 2MOA dot only for up to 50,000 hours at a mid setting.
3. Battery replacement.
 - 1) Remove the battery: (Fig 5-1)
 - i. Loosen screw 1, 2.
 - ii. Insert the included flat drive tool in the battery tray slot, pry out the tray, and remove the dead battery.

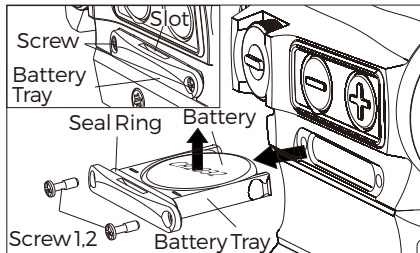


Fig 5-1

2) Battery installation: (Fig 5-2)

- i. Insert the battery into the battery tray with the POSITIVE side facing DOWN.
- ii. Insert and press the tray into the battery compartment.
- iii. Tighten the battery tray screw 1, 2.

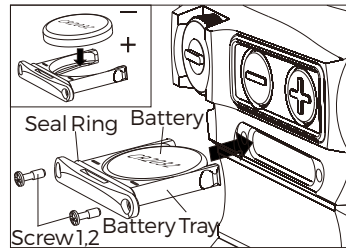


Fig 5-2

Caution:

1. Battery type: (CR2032).
2. Battery chemistry: (lithium).
3. Nominal voltage: (3V).

4. Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
5. Even used batteries may cause severe injury or death.
6. Call a local poison control center for treatment information.
7. Non-rechargeable batteries are not to be recharged.
8. Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
9. Ensure the batteries are installed correctly according to polarity (+ and -).
10. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.

11. Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
12. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.
13. The loss or damage of seal ring may cause water to leak into the battery compartment which could damage the product.

Installation on the Firearm

1. The mount bracket is adaptable to the arms with Picatinny Rail, If the arms have no Picatinny rail , or with other types of rail, please contact a qualified gunsmith.

2. Designed with our patented nonlinear cam clamping system, no tools are required for attaching to a rail. Push locking button, lift up handle to loosen the locking bar. To mount sight on rail, push the handle down, locking button will automatically engage. The installation is complete.(fig 6-1)

3. Initial installation

For the first installation, You may feel the clamp too tight that the hand shank cannot be pushed down or too loose that the device cannot be clamped tightly on rail,you need to make a little adjustment for the clamp. The following is the adjustment steps:
1) There is one Torx socket at the end of clamp adjusting bolt on the side of the mount. (See Fig 6-2) Before installation, loosen the screw to release clamp using included Torx wrench, and then;
2) Pull up the cam clamp handle. Slide the sight into rail and close the clamp handle.

3) Tighten the clamp adjusting bolt using the Torx wrench. This will tighten the clamp to the rail to moderate degree. Try to pull up and close the clamp handle, adjusting the clamp screw appropriately, neither too tight nor too loose. This will avoid the mount becoming loose under recoil.

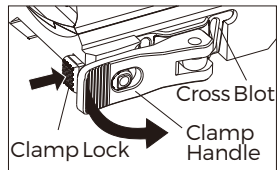


Fig6-1

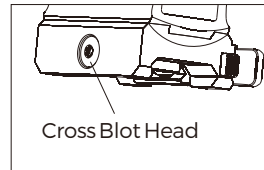


Fig6-2

Sight Operation

Two operation modes are available: Auto mode and manual mode.

1. Switch ON: Press and release either brightness button ("+" or "-") to turn on the sight. (see Fig 7)

2. Power OFF: Press the "+" and "-" buttons simultaneously will turn the power and motion sensor off.

3. Operation Mode: Two operation modes are available Auto Mode and Manual Mode.

1) Auto mode (default) - with solar cell and internal battery two-way power supply: Based upon the ambient lighting level, the sight will switch between battery and solar cell power automatically for operation in all lighting conditions.

Auto mode operation:

a) Under auto mode, the brightness of the reticle is automatically adjusted to match ambient lighting.

b) The battery will compensate for power if the solar cell cannot drive the reticle alone.

c) RED: If lighting is low, the sight will automatically switch to the battery power. While running on battery power, you can adjust the reticle brightness using the "+" and "-" buttons to switch between high and low brightness levels.

d) GREEN: If lighting is low, the sight will automatically switch to the battery power. While running on battery power, there are 8 settings from 3-10 in the lowest gear which have same brightness of manual mode. Press "+" or "-" to adjust the brightness and you are at setting X, the brightness will vary from X to 12 based on ambient lighting.

2) Manual Mode:

a) Press down the "+" button for 3 seconds to enter into the manual mode.

b) Brightness adjustment: There are 12 settings for reticle brightness

level under manual mode. Settings 1 to 4 are NV compatible and setting 12 is the brightest. Using "+" or "-" to increase or decrease the brightness.

c) Switching back to auto mode: A single press of the "+" button for 3 seconds will switch the sight to auto mode.

d) Holding down the "-" button for will cycle between the two reticle choices.

4. Sleep Time Setting:

1) Please note that your reticle will automatically enter into sleep mode after 10 minutes of no movement.

2) The sight will instantaneously wake up and turn on with any motion detection to last saved setting.

3) The default sleep timer setting is 10 min, but can be adjusted.

I. Press and hold the "+" button for 10 seconds to enter time adjustment mode. There are 4 options: 10 min, 1h, 12h or the sleep

mode is disabled.

ii. Press and release either "+" or "-" button to set the time. The LED will blink (1=10 min, 2=1h, 3=12h, or 4=disable sleep mode).

iii. Press the "+" and "-" buttons simultaneously to save the time setting and power off the sight.

5.NOTE:

1) Memory function: The sight will remember the last saved brightness setting when powered on and off.

2) Low battery warning: If the battery voltage is below 2.2Vdc, the reticle will blink slowly. (The warning voltage of HE515CM-GR is 2.3Vdc)

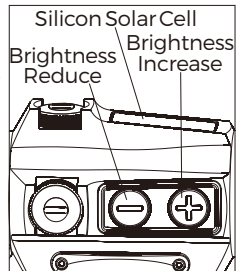


Fig 7

Zero Setting

1. On top of sight is the elevation adjusting turret, windage adjusting turret is on the right side (see Fig 8). The sight has been factory adjusted for approximate zero.
2. The built in screw driver tool on the protective cap can be used for zeroing adjustment (see Fig 8). See label inside cap.
3. First open the protective cap, position slot type screwdriver on the slotted screw, then rotate the screw to right or left for adjustment. Each left or right click is for one adjustment equivalent to 0.5MOA value.
4. Adjust the Elevation turret counterclockwise to move the point of impact UP. Adjust the Windage turret counterclockwise to move the point of impact to the RIGHT. Turning either turret clockwise moves the point of impact in the opposite direction.

5. Caution:

Don't try to over rotate the knobs. If you feel the knobs cannot be rotated, this indicates you have reached the adjustment limit, otherwise the device may be damaged. If the required adjusting range is beyond the limits, consider to add extra spacer between the device and mount/rail to expand the adjusting range limits.

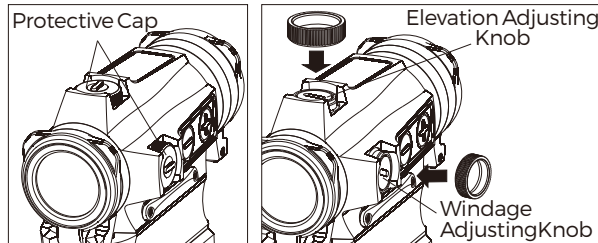


Fig 8

Maintenance & Care

This device is a precision instrument that deserves reasonably cautious care. The following tips are provided to ensure a long product life. The optical lenses are multicoated optical glass. When cleaning the lenses, blow away the dust on the surface, wet the lens with lens cleaner or clean water, then wipe away smudges with lens tissue, soft cotton or a microfiber cloth. Avoid touching the glass surface with dry cloth or tissue paper. Do not use organic solvents such as alcohol or acetone. No special maintenance is needed for the housing surface. Do not try to dismantle the device as the internal parts are specially cleaned and sealed and with an anti-fog treatment. Any such attempt will void the warranty.

Limited Warranty

We provide a limited lifetime warranty from the date of purchase on parts and workmanship to the original purchaser. At our sole discretion, we will repair or replace products found to be defective under normal use without charge, excluding any delivery costs, which will be born by purchaser. We will not be liable for incidental, consequential, or special damages arising out of or in any connection with the use or performance of this product. This warranty is void if the product has been misused, modified, neglected, or disassembled prior to its return. Please refer to www.holosun.com for current and complete warranty information and other conditions.

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