

NIGHT-OPS

REMOVING ANY SHADOW OF DOUBT™

Gladius™ LED Flashlight

Specification Sheet



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Night-Ops™
a Division of BlackHawk® Products Group™

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THE NIGHT-OPS GLADIUS™ by BLACKHAWK

From the beginning of time, cultures have etched their place in history by the armaments they forged to conquer and protect themselves from their ever-present enemies.

These tools were carried by warriors who often endured unspeakable hardships and agony, most of this sacrifice unnoticed by the vast majority of the society they were sworn to protect. Inevitably warriors and conflict have always had a tremendous influence on the evolving design of these tools, as victory and mission success depended on the effectiveness, durability, and portability of their equipment. In the spirit of these warriors and their contributions, Blackhawk Products Group introduces its latest set of proprietary tools, Night-Ops illumination equipment.

The mission of Night-Ops is to design and manufacture finest lighting tools in the world.

Night-Ops illumination tools are designed to be the most durable, dependable and technologically advanced in the world. In short, Night-Ops illumination tools are manufactured to meet the demanding requirements of those warriors that go into harms way by choice. Night-Ops has dedicated itself to listening to those who serve as guardians of society as a whole. We value their experience, knowledge, and practical wisdom. History tells us over and over again that a single tool can radically change the landscape of the battlefield.

Perspective, strategy, and tactics, can all be significantly affected with the introduction and understanding of a crucial piece of equipment. Night-Ops first illumination tool is the "Gladius". It is the first in a long series of projected releases. This "Gladius" is a high-powered, compact illumination product that is named after one of the most famous battle implements in history. Many accounts indicate that the original Gladius was developed after the Romans encountered a sword of the highest iron quality that was designed to puncture the enemy. It caused such terror and anguish among the Roman legionnaires that the Roman Senate decided to adopt a similar weapon, replacing the Greek sword of the hoplite. Of this sword design it has been said that no other weapon has killed more men throughout history until the invention of the firearm. That being said, there was room for notable improvement of design and the Romans exploited this. We take note of these lessons learned. The Roman soldier himself was one of the toughest and most acclaimed on the planet, carrying over 90 lbs of equipment often 20 miles a day only to face prolonged battle under the harshest conditions.

Like the Roman sword serving these soldiers before us, the Night-Ops "Gladius" is specifically designed to be a critical, practical, and powerful mainstay for our frontline troops in Law Enforcement and Military Operations involved in Close Quarter Confrontations. The Night-Ops "Gladius" will provide our modern warriors with a readily available illumination option to tip the scale of conflict in their favor.

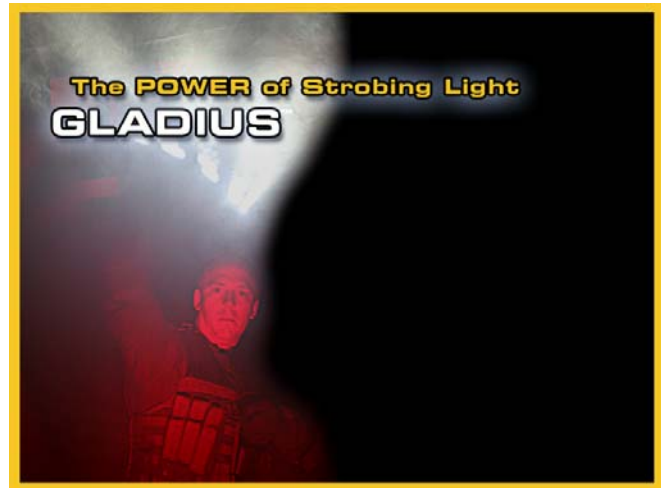
The Gladius Conquers Again!



The Gladius features a revolutionary intelligent electronics package. With the embedded capabilities of this light, a user can navigate in hostile conditions (adjustable levels of light), while maintaining the immediate option of activating the rear tailcap button for momentary switching. The Constant-On feature and System Lock-Out are also seamlessly accessed with the thumb. What really sets this illumination tool apart from the pack is its incredible strobe capability.

- High quality glass
- Superb fit and finish
- Excellent balance and ergonomics
- Multi-function capability
- Intelligent digital power management system

The strobe rate was established at a frequency and intensity so that non-compliant individuals will be extremely disoriented and is intended to give the user that deploys this function a tactical advantage through this visual distortion. Since a large amount of data used to make a decision to act (good or bad) is gathered through vision this disorienting strobe mode is intended to visually limit and distort the data received through vision. That is, an adversary will many times turn away, become confused or frightened, distracted, disoriented or experience other distortions in senses whether visually or auditorily.



The individual using the light is not adversely affected by the strobe, as the majority of the light energy is directed away from the officer. Department of Justice statistics clearly reveal that most Law Enforcement officers are killed in the line of duty during the hours of darkness. This whole concept is of critical importance. If officers can carry a device that will generally give them a predictable edge when forced to close the gap and get "hands on" with an individual before that individual can formulate a retaliatory response, it logically follows that reduced levels of force will be required. If officers can deploy less-lethal options such as Tasers, O/C, Baton while the subject is in the state of disorientation, those tools will have a stronger and more immediate effect as the subject does not have the opportunity to prepare mentally or physically for the next impending action on the officers part.

Bottom Line: Law Enforcement officers, military personnel, professional security and civilians concerned with self-defense will have at their immediate disposal a tool that may assist in reducing the level of force required to subdue many threats encountered in diminished light conditions.

The Gladius is the most Innovative Tactical Illumination Tool to arrive on the scene. This illumination tool is designed primarily for handheld use, but is robust enough for weapon mounted applications. The Gladius is powered by two 3-volt lithium batteries (CR123A) for a total approximately runtime of 90 minutes at the full power setting. The Gladius is designed from the ground up to be immersed into the realities of close quarter conflict and should significantly enhance the capabilities of those operating in low light environments. The Gladius is born of years of low light operational and training experience and simply outclasses the competition.

This light is factory pre-focused for optimal use in close quarters. The LED is an O-ring suspended high quality glass lens that matches the industry. The body design allows for a variety of handling, providing an excellent center of gravity and well-placed anti-roll/retraction during stressful situations or when it gets wet; it just feels like a well-designed electronics package that can only be described as REVOLUTIONARY.



Traditionally, flashlights have been used to navigate, search for contraband or important evidence, identify and classify threats, and in some cases serve as impact weapons. In the past several years there has been a strong undercurrent that has been largely generated by the teaching staff at Strategos International in applying handheld and weapon mounted white light tools in an important new role; that is, deliberately disorienting seen and even

unseen threats.

This electronics package of the Gladius is the most technologically advanced ever developed for a handheld illumination tool. It has been laboratory tested and more importantly field tested to ensure it can withstand the rigors of operational deployment. The Gladius starts with a factory programmed, intelligent power management electronics package that allows Night-Ops to take current illumination technology to a new level.

This intelligent power management system allows the LED to be driven at a very high level while maintaining an extremely high degree of reliability, usability and efficiency as heat and current are digitally regulated. This lighting tool has digitally automated temperature control to ensure transport and storage safety. If the light is inadvertently activated in a confined storage area and reaches unsafe levels of heat, the light will automatically reduce power and light output slightly. If temperature levels continue to rise the light will turn itself off automatically.



This feature addresses the issue of the light becoming damaged or becoming a fire hazard because of the build up of heat if the light comes on in a non-ventilated and confined storage area. In the environments the Gladius was designed for, the auto-shutdown feature will not activate itself when being utilized by the end user. If the batteries run low, the intelligent power management system will signal the operator of this condition by double flashing rapidly every 15 seconds until batteries are replaced with new batteries.



In addition to high intensity output, extended runtime, exceptional beam quality, durability for combat applications, and thermal management, the Gladius features a totally unique multi-function capability accessed by the use of two fast acting controls: A familiar push-button tailcap and a thumb activated rotary dial. Between these two controls the user has quick access to a variety of channels and modes that can be tailored to meet the changing dynamic of the situation.



Channel 1 - Momentary Activation (Rotary Dial in the Full Clockwise position – Tailcap button PRESS ON and RELEASE OFF) As long as the tailcap button is pressed, the light is ON. When the tailcap button is released, the light is extinguished.

Channel 2 - Strobe (Rotary Dial in the Middle position – Tailcap button PRESS ON and RELEASE OFF) As long as the tailcap button is pressed, the light will flash in a pre-programmed rapid strobe pattern. When the tailcap button is released, the light is extinguished.

Channel 3 - Constant On at Full Power or Adjustable Light Level (Rotary Dial at the Full Counter-Clockwise position) This Channel either allows the light to remain ON at Full Power or to be adjusted to a desired illumination level, as further described below.

Channel 4 - Lock Out - System OFF Mode

When the rotary dial is in the full counter-clockwise position (Channel 3) and the tailcap button is depressed half-way, the rotary dial can be turned to one additional counter-clockwise position. When the rotary dial is in this position, the light is "Locked Out" and the tailcap button cannot be depressed. This allows the light to be stored in a "go-bag", with other gear, or in a holder without accidental light activation. To unlock the light, simply rotate the rotary dial clockwise.

Using the Multiple Features of Channel 3

Constant On, Full Power (Tailcap button PRESS AND RELEASE) When the tailcap button is quickly pressed and released, the light will stay ON. When the tailcap button is quickly pressed and released again, the light will turn OFF.

Adjustable Light Levels (Tailcap button PRESS AND HOLD)

The Gladius has a 100:1 dimming ratio, and if you need just enough light to navigate in difficult terrain, to signal, or complete some administrative function, the light can be adjusted accordingly. You may want the light to initially illuminate at a low power setting instead of Full Power or simply “remember” the previous light setting. Gladius includes 3 Modes for controlling the manner in which the light can operate in Channel 3.

Mode I - Auto-Dim from Full Power to the Lowest Power Level (Factory Default)

When the tailcap button is depressed, **the light initially illuminates at Full Power**. If the tailcap button is depressed for at least 1.5 seconds, the light will begin to auto-dim from the Full Power setting to the lowest light level. Releasing the tailcap button stops the auto-dimming process and the light stays on at the selected level. Once the auto-dimming process has begun, the light transitions from Full Power to the lowest light level in 3 seconds. To reverse the process and cause the light to brighten, press and hold the tailcap button again for at least 1.5 seconds. Once the light level increases to the desired level, release the tailcap button. If you wish to turn the light OFF once the light level is established, simply press and release the tailcap button. To instantly cause the light to go to full brightness from any dimmed level, press and release the tailcap button twice.

***Note:** Since the Gladius flashlight was primarily designed to address close quarter confrontations where threat identification and assessment is critical, the factory programming is such that no matter what Channel you select, the light initially illuminates at Full Power.*

Mode II – Auto-Brighten from the Lowest Power Level to Full Power (Reverse of Mode I)

When the tailcap button is depressed, **the light initially illuminates at its lowest power level**. If the tailcap button is depressed for at least 1.5 seconds, the light will begin to auto-brighten from its lowest power level setting to Full Power. Releasing the tailcap button stops the auto-brightening process and the light stays on at the selected level. To reverse the process and cause the light to dim, press and hold the tailcap button again for at least 1.5 seconds. Once the light level decreases to the desired level, release the tailcap button. If you wish to turn the light OFF once the light level is established, simply press and release the tailcap button. To cause the light to go to lowest power level of light, from any dimmed level, press and release the tailcap button twice.

Mode III - Memory Mode

When the tailcap button is depressed, **the light initially illuminates at the previous light level**. The light level will adjust up or down based on your last Mode. This Mode gives Gladius a wide range of versatility to meet operational requirements never previously available in this category of illumination tools. You can return to any previous Mode by initiating the proper sequence, as outlined below.

Switching Modes in Channel 3

The Modes in Channel 3 can be sequentially changed from Mode I, to Mode II, to Mode III and then back to Mode I by initiating the following sequences:

To change from Mode I (factory default) to Mode II, press and hold the button in CONSTANT ON/OFF mode until the light blinks twice (approx. 10 seconds). Repeat the process. TURN the Light OFF. The next time you activate the tailcap, the light will start off at its lowest level of output. Adjustment from there will initially go up.

To change from Mode II to Mode III, press and hold the button in CONSTANT ON-OFF mode until the light blinks twice (approx. 10 seconds). Repeat the process. TURN the Light OFF. The next time you activate the tailcap, the light will be in Memory Mode. The light level will start off at the last level you established. Adjustment from there will initially go down to a lower level.

To change from Mode III to Mode I (factory default), press and hold the button in CONSTANT ON/OFF mode until the light blinks twice (approx. 10 seconds). Repeat the process. TURN the Light OFF. The next time you activate the tailcap, the light will start off at its highest level of output. Adjustment from there will initially go down to a lower level.

Note: If you are a member of a team that carries the Gladius, having several different configurations of lights (different Channel 3 programming) within that team could lead to confusion. Please consider this when changing the factory default settings for this channel.

Switching Channels Dynamically

While the light is in use, you can "preset" the light to another channel by simply turning the rotary dial without changing the current level or type of light output. *The next time the tailcap button is manipulated, the light will operate in the newly selected channel.*

For example, you may be navigating using the Gladius at its lowest light level. During that navigation task, you can switch the rotary dial to Momentary Activation (Channel 1). The light will remain at its lowest light level until you press the tailcap button again. At that point, you will be at Full Power and in Momentary activation.

Auto Temperature Control

Within the intelligent power management system of the Gladius is a proprietary temperature control feature that automatically regulates the temperature of the LED. If the light is inadvertently activated, causing the temperature of the LED to become excessive, the automatic temperature control feature reduces power to the LED by 50% (a 30% light reduction), allowing the LED to cool. Gladius will continue to emit light at useful levels while the LED cools. Once the temperature of the LED is reduced to within operating parameters, the power to the LED returns to 100%. If the temperature of the LED is not reduced by the temporary 50% reduction in power, and continues to increase past a critical temperature threshold, the power sent to the LED is automatically terminated to protect the LED and batteries from being damaged. In an emergency, this shutdown feature can be reset by turning the light OFF and back ON. The light will remain ON for 15 seconds and then shutdown again if the temperature of the LED is still past the critical temperature threshold. Note: The automatic temperature control feature is also activated when the light is placed on Constant ON for more than a few minutes (ambient temperature dependent).

LED

Lumileds 3-watt Luxeon Star - "T"-bin

Runtime

- Approximately 90 minutes total at Full Power output
- Approximately 400+ hours @ lowest setting. (approx. 0.8 lumen)*

Lumen Output

Approximately 80+ Lumens at Full Power
Approximately .8 Lumen at Lowest Setting

Finish

Gladius is protected by an exceptionally hard coating and is available in Black, OD Green, and Coyote Tan

Reflector

The reflector was specifically chosen to create an intense "Hot Spot" and maximize downrange "Throw" yet still producing a large, useful corona for area searching.

Lens

If the external surface of the lens becomes soiled, it can be cleaned with a soft cloth that has been lightly wetted with a mild window cleaner. Do not attempt to remove the lens for cleaning as the bezel of the Gladius has been sealed at the factory and any attempt to do so could cause damage to the light and will void the warranty. If the lens becomes cracked or broken, return the Gladius to the factory for repair.

Low Battery Power Indication

When the battery reaches a pre-determined discharge level, the light will flash two consecutive, rapid pulses every 15 seconds until the batteries are replaced.

Note: This low battery indication is active for the Momentary and Constant On modes ONLY.

Dimensions and Weight

Bezel Diameter 1 1/4"

Body Diameter 1"

Length (Bezel to Button) 6 1/8"

Weight 4.32 oz without Batteries - 5.55 oz with Batteries

WARRANTY

Night-Ops™ Illumination Tools! Night-Ops Illumination Tools are warranted to their original owner to be free from defects in parts and workmanship for the life of that owner. This limited lifetime warranty DOES include the LED housed within the illumination tool. At our option, Blackhawk Products Group will repair, replace or refund the purchase price of the Tool. Excluded from this warranty are batteries, bulbs, and the associated electronics. The electronics are covered by a one year warranty with proof of purchase. The following conditions and exclusions also apply: Disassembly of any part of the light other than for battery replacement (as described in the instruction manual) will void the warranty as will alteration, misuse, battery leakage or lack of maintenance. Normal wear is to be expected under this warranty.

For each light submitted for warranty consideration, you must first obtain a Return Merchandise Authorization (RMA) number from Blackhawk Products Group. Call 800.694.5263 or 757.436.3101 to obtain a Return Merchandise Authorization Number. Please take a moment to fill out the attached card. The information you provide is invaluable in helping us to continue to design innovative & dependable illumination tools. It will also enable us to send you information on new products as well as special sales promotions taking place at your nearest Night-Ops Authorized Dealer.



www.night-ops.com
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Choosing a Flashlight from a Law Enforcement Perspective

Ergonomics

The flashlight should be naturally retained in the hand. The flashlight should not easily slip when involved in other tasking. The flashlight should be suitable to deploy using a variety of handgun/flashlight techniques and searching protocols.

Balance

This is an often overlooked consideration. Like all tools that man develops, a balanced tool that is easily directed and handled is much preferred over an unbalanced tool that wanders in unwanted directions or causes the user to drop it altogether. Since these tools may be called upon during times of extreme stress, a balanced flashlight is a critical factor when selecting which one to buy. You want a tool that will naturally remain aligned, as you will not have the mental resources available under duress to consciously think about it.

Durability

This applies to all flashlight components: body, reflector, light source, switch, and electronics. If dropping or banging the light puts it out of order, it is simply not suitable for LEO or combat use. LED's are exceptionally strong and have thousand of hours of runtime.

Water-Resistant

The light may be carried and used in the rain or other very wet/humid environments. It must not be susceptible to either water infiltration or corrosion from dampness or humidity.

Bright

The light will be used to clearly identify targets and to temporarily incapacitate an assailant. Traditional 2-D cell flashlights using traditional bulbs are inadequate sources of light. We believe a minimal level of light for use in tactical and high-risk applications a minimum level of light output should be no less than 60 lumens.

Color Temperature

Careful attention must be afforded to selecting an LED or BULB that matches the mission requirements. For tactical applications, a color temperature that is in the "white light" spectrum is important. A high output, high quality Xenon bulb for incandescent lights and a high quality, high output LED should be incorporated into the design application of the given tactical lighting tool.

Adjustable Levels

Ideally, a light used in military, law enforcement, professional or personal security applications should have the ability to provide lower levels of light output in order to perform tasks that do not require maximum output. Examples include locating contraband, navigating on higher risk approaches, recons, map reading, or writing reports, etc.

Beam Quality

Many manufacturers claim high output in terms of lumens or candlepower. This is only part of the story or what we consider the "light signature". The light must be properly focused and free of dark holes within the beam pattern in order to facilitate threat identification and threat disorientation.

Beam Diameter

This directly affects how much of the area you can observe and evaluate and ultimately act upon. This is primarily affected by light output and the reflector/optic chosen. There is no "one-size fist all" illumination tool in this regard. An array of tools must be developed to meet mission, range and terrain requirements. If your mission requires you to stay indoors or out on patrol in open areas, lighting tool selection must be matched in accordance with these realities.

Beam Throw

This is defined as the distance that the user can use the beam to accurately identify or locate persons or items. Again, the reflector/optic must be carefully evaluated and selected to meet the mission requirements of the operator. Given the same light output, the reflector or optic will have significant impact on how well your light will penetrate downrange.

Momentary On/Off Switch

Frequently, proper use of flashlights in LEO or combat situations requires activating them for brief moments - sometimes literally a fraction of a second. Ideally, this activation should be possible with just the thumb or a single finger. Therefore:

- (1) A flashlight with only a "twist" on/off mechanism is unacceptably slow to operate.
- (2) Flashlights with a slide-on/off switch (most of which are not water-resistant) are undesirable, since a positive and rapid on/off cycle is possible only with a thumb.
- (3) A flashlight whose momentary switch is integral with its regular on/off switch is undesirable, since accidental activation at the wrong moment could prove disastrous.
- (4) A separate momentary switch, operable with one finger or one thumb while holding the flashlight in its normal grip, is by far the best.

Constant-On Switching

A separate, mode for keeping the light on should be provided with the proper lighting tool. I.E, directing traffic, searches, and holding on threats.

The Gladius Meets all these Requirements and More...



Blackhawk Part # & Body Color	NSN #
75200BK – Black	6230-01-529-8863
75200OD - Olive Drab	6230-01-533-3440
75200CT - Coyote Tan	6230-01-529-8862