



**Night Vision
Thermal Imaging
Custom Optical Solutions**



www.NVISIONOPTICS.com

2017 PRODUCT CATALOG

YOUR FIRST SOURCE FOR NIGHT VISION AND THERMAL IMAGING



ABOUT

We at N-Vision Optics pride ourselves in providing combat proven electro-optical products and technologies to Military and Law Enforcement users in the United States and abroad. N-Vision Optics specializes in night vision equipment, thermal imaging devices and custom optical solutions. N-Vision Optics manufactures, assembles, and distributes the highest quality products that can withstand the toughest mission environments and conditions.

Our customers include U.S. Armed Forces, State and Federal Law Enforcement Agencies, Defense Ministries and Security Organizations around the world.

CAPABILITIES

N-Vision Optics employs a team of talented, highly qualified professionals with a wide range of experience in optical design and the manufacturing process. By combining in-house development facilities and strategic partnerships with leading component manufacturers, N-Vision Optics is able to incorporate into its products the latest technological developments at record times. More importantly, we talk to users of our equipment every day and develop new products based on their inputs.

The success and safety of our customers is our main purpose, and seeing our equipment help those in the line of duty is the greatest reward.

NIGHT VISION

N-Vision Optics is proud to manufacture and supply tactical night vision equipment with image intensifier tubes built by leading manufacturers in the US and Europe. Our product line includes monoculars, binoculars, goggles, weapon sights and accessories.



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ACCESSORIES

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ACCESSORIES

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GSA CONTRACT HOLDER

ISO 9001:2008 CERTIFIED

GT-14

Night Vision Monocular



ABOUT

The GT-14 is a high-performance night vision monocular with advanced ergonomics and intelligent power control developed as an alternative to the US Military issue PVS-14. Submersible and extremely lightweight, GT-14 uses the most advanced Generation 3 image intensifier tubes and is equipped with an invisible to the human eye infrared illuminator (IR).

The GT-14 features automatic brightness control (ABC), which automatically adjusts the brightness of the image intensifier tube for varying light conditions and in-ocular low battery and IR indicators.

An ideal multi-purpose system for night operations, GT-14 can be hand-held as a monocular, head/helmet mounted as single-eye night vision device, weapon-mounted as a night scope or attached to photo/video cameras and 3x/5x afocal lenses for long-range, night surveillance. An optional dual mount adapter allows two GT-14 monoculars to become one dual tube binocular system.

KEY FEATURES

Lightweight, submersible, and shock proof
Available in CR123 and AA configurations
Green and white phosphor models available

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25 cm to infinity
Diopter Focus	+2 to -6 diopters
Field of View	40°
Operating Temperature	-51° C to +50°C
Storage Temperature	-51° C to +85°C
Weight	320 g/ 11 oz
Dimensions (inches)	4.5L x 2H x 2W (inches)
Battery	1 CR123 (or 1 AA)

OPTIONAL ACCESSORIES

			
3x Magnifier Lens	5x Magnifier Lens	NVAT Adapters	Dual Mount Adapter
			
Helmet Mount	Small Arms Adapter	Purge Kit	Hard Case

Other accessories compatible with GT-14 are available. Please contact us for more information.

G15

Night Vision Binocular



ABOUT

The G15 is a dual-tube night vision binocular developed specifically for situations where mission performance and depth perception are critical factors. The unit utilizes two image intensifier tubes, offering better depth perception and image clarity than single tube systems thereby greatly improving the user's ability to perform mission critical tasks. G15 can be hand-held, head-mounted, or helmet-mounted. The unit is fully submersible to a depth of 6.5 ft (2 meters) and is equipped with an invisible to the human eye short range infrared illuminator.

The G15 is built from two GT-14 night vision monoculars which can be separated from each other, providing the user with great flexibility to adapt to tactical situations. Each monocular can be independently hand held, head, helmet, weapon mounted or attached to a video camera.

KEY FEATURES

- Dual-mounted monoculars for added versatility
- Binocular configuration increases depth perception
- Green and white phosphor models available

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25 cm to infinity
Diopter Focus	+2 to -6 diopters
Field of View	40°
Operating Temperature	-51° C to +50°C
Storage Temperature	-51° C to +85°C
Weight	748 g/ 26 oz
Dimensions (inches)	4.7L x 2.5W x 4.3H (inches)
Dimensions (centimeters)	12L x 6W x 11H (centimeters)
Battery	2 CR123 (or 2 AA)

OPTIONAL ACCESSORIES



3x Magnifier Lens



5x Magnifier Lens



Magnetic Compass



Helmet Mount



Purge Kit



Hard Case

LRS

Long Range Surveillance System



ABOUT

The LRS is a state of the art Generation 3 advanced night vision system designed for night observation, photography, and video recording. LRS offers superior performance and image clarity while being easily adaptable with Interchangeable Lens Nikon and Canon SLR Cameras (professional and consumer grade)

The LRS is designed and built to ensure superb photographic image quality straight from the box. All necessary adjustments to the LRS and matching LRS Photo Adapter are done in the laboratory prior to shipment to ensure image quality and ease of use. LRS provides bright image and high resolution across the entire frame with minimal light roll-off and distortion.

The unit is equipped with an invisible to the human eye short range IR illuminator and is made out of aircraft grade 6061-T6 aluminum and is hard coated to the most stringent Mil-Spec requirements (Type 3, Black).

KEY FEATURES

Full frame clarity from edge to edge
Compatible with a variety of photo and video cameras
Green and white phosphor models available

SYSTEM SPECIFICATIONS

Eye Relief	30 mm
Diopter Adjustment	+2 to -6 diopters
Operating Temperature	-51 to +50 °C
Storage Temperature	-51° C to +85°C
Weight	340 g/ 12 oz
Dimensions (inches)	5.4L x 3.0H x 2.25W (inches)
Dimensions (centimeters)	13.7L x 7.6H x 5.7W (centimeters)
Battery	1 CR123 Lithium

OPTIONAL ACCESSORIES



C-Mount Adapter



Video adapter kits



Photo adapter for interchangeable lens
SLR cameras

WFOV PVS-15

Wide Field of View Night Vision Binocular



ABOUT

The WFOV PVS-15 features a ground-breaking 80° wide circular field of view without compromising optical resolution, size, weight, or power consumption (SWaP). The WFOV PVS-15 is developed and built by Kent Optronics, where their proprietary foveal design of the objective and eyepiece lenses, provide the wide FOV with a high, on-axis resolution.

At 80°, the WFOV provides double the field of view of a standard PVS-15. The limited 40° FOV of standard AN/PVS-15 NVGs restricts the off-axis detection, and thus hinders peripheral vision. In addition, aggressive head scanning is necessary for maintaining minimal situational awareness, which presents the possibility of disorientation, neck strain, and fatigue for operators. The increased FOV guarantees a true 2-dimensional (2-D) wide area coverage in a much more compact and light weight package.

WFOV PVS-15 is available as a retrofit for the standard AN/PVS-15 system as well as a brand new wide field of view binocular.



Standard NVG 40° FOV



Foveal NVG 80° FOV

KEY FEATURES

80° Field of View
Available as complete new system or as PVS-15 retrofit
High on-axis resolution

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25 cm to infinity
Diopter Adjustment	-4 to +2
Field of View	80°
Eye relief	15 to 20mm (80° to 68°FOV)
Operating Temperature	-51 to +50 °C
Storage Temperature	-51° C to +85°C
Weight	676 g / 23.8 oz (with battery)
Dimensions (length)	105 mm
Battery	1 AA
Submersible	20 meters (66 ft)

DNVB

Dedicated Night Vision Binocular



ABOUT

The DNVB (Dedicated Night Vision Binocular) is a true binocular configuration with dual image intensifier tubes and molded housing components. DNVB has been designed specifically for situations where depth perception and observation capabilities are critical for mission and operational success. DNVB can be deployed as a hand-held binocular, head mounted, or helmet mounted binocular.

Ideal for surveillance and observation purposes, the DNVB can be outfitted with optional accessories such as 3X and 5X Afocal Magnifier Lenses for even greater range and functionality. The unit is fully submersible to a depth of 6.5 ft (2 meters) and is equipped with an invisible to the human eye short range infrared illuminator.

KEY FEATURES

- Integrated helmet mount adapter
- Lightweight, multi-use design
- Green and white phosphor models available

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25cm to infinity
Diopter Focus	-6 to +2
Field of View	40°
Operating Temperature	-51°C to +50°C
Storage Temperature	-51°C to +85°C
Weight	588 g / 21 oz
Dimensions (inches)	4.6 L x 4.3 W x 2.9 H (inches)
Dimensions (centimeters)	11.7 L x 11 W x 7.4 H (centimeters)
Battery	2 CR123 or 2 AA

OPTIONAL ACCESSORIES



3x Magnifier Lens



5x Magnifier Lens



Magnetic Compass



Helmet Mount



Purge Kit



Hard Case

PVS-14

Night Vision Monocular



ABOUT

The PVS-14 is a multi-purpose night vision monocular currently used by the U.S. military and its allies worldwide. PVS-14 features the most advanced Gen 3 image intensifier tube with variable gain control to achieve the highest quality image resolution for various light conditions. The unit can be hand-held as a monocular, head-mounted or helmet-mounted as a single-eye device, or weapon-mounted as a night scope.

Optional accessories make the PVS-14 extremely versatile. 3x and 5x afocal attachment lenses are available for longer range observation. The new dual mount adapter, designed and manufactured exclusively by N-Vision Optics, connects two PVS-14 systems to form a dual tube binocular.

KEY FEATURES

Variable gain control
High light automatic shut-off
Green and white phosphor models available

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25 cm to infinity
Diopter Focus	+2 to -6
Field of View	40°
Operating Temperature	-51° C to +50° C
Storage Temperature	-51° C to +85° C
Weight	320 g/ 13.5 oz
Dimensions	12L x 5W x 6H (centimeters)
Battery	1 AA

OPTIONAL ACCESSORIES



Dual Mount Adapter



Advanced Dual Mount



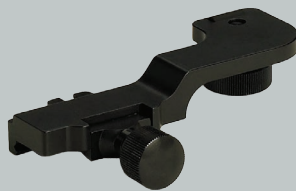
Magnifier Lenses



NVAT Adapters



Helmet Mount



Small Arms Adapter



Purge Kit



Hard Case

Other accessories compatible with PVS-14 are available. Please contact us for more information.

PVS-7

Night Vision Goggles



ABOUT

The PVS-7 is the current military issue night vision goggle used by the US armed forces and is the preferred choice of many foreign allies and law enforcement professionals. Built to withstand the rigors of the battlefield, it delivers exceptional gain and resolution on the darkest of nights. PVS-7 is offered with the highest quality Generation 3 image intensifier tube and features single tube, bi-ocular design, Mil Spec optics and housing, user friendly controls, built-in IR illuminator, and internal low battery and IR indicators.

The PVS-7 is equipped with Automatic Brightness Control (ABC), which automatically adjusts the brightness level of the image tube for varying light conditions. Lightweight and versatile, the PVS-7 can be hand-held, head-mounted, and helmet-mounted. Afocal attachment lenses are available for longer range observation and surveillance.

KEY FEATURES

Bi-ocular design ideal for hand-held or helmet mounted operations
High light automatic shut-off
Green and white phosphor models available

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25 cm to infinity
Diopter Focus	-6 to +2
Field of View	40°
Operating Temperature	-51° C to +50°C
Storage Temperature	-51° C to +85°C
Weight	680 g/ 24 oz
Dimensions	6L x 6W x 3H (inches)
Dimensions	15L x 15W x 7.6H (centimeters)
Battery	2AA

OPTIONAL ACCESSORIES



3x Magnifier Lens



5x Magnifier Lens



Magnetic Compass



Helmet Mount



Purge Kit



Hard Case

BNVD

Binocular Night Vision Device



ABOUT

The BNVD is a rugged dual image intensifier tube night vision goggles that offers users significantly better depth perception and confidence during nighttime operations than a single tube system. BNVD can be operated as a hand-held binocular, or head mounted or helmet mounted for hands-free tactical operations. BNVD was designed specifically for situations where critical mission performance and depth perception factors are required elements.

BNVD can be easily converted into an enhanced long range binocular with the use of optional 3x magnifier lenses. BNVD is submersible up to 66 feet and is also available with variable gain.

KEY FEATURES

Single, double, and non-variable gain control models available
Lightweight, compact design
Green and white phosphor models available

SYSTEM SPECIFICATIONS

Magnification	1x
Range Focus	25 cm to infinity
Diopter Focus	-6 to +2
Field of View	40°
Operating Temperature	-51° C to +50° C
Storage Temperature	-51° C to +85° C
Weight	580 g/ 20.5 oz
Dimensions (inches)	5 L x 5 W x 3 H (inches)
Dimensions (centimeters)	12 Lx 12 W x 8 H (centimeters)
Battery	1 AA

OPTIONAL ACCESSORIES



3x Magnifier Lens



5x Magnifier Lens



Magnetic Compass



Helmet Mount



Purge Kit



Hard Case

UNS-SR

Universal Night Sight - Short Range



ABOUT

The UNS-SR is a high-resolution Clip-on Night Vision Device that mounts on any MIL-STD-1913 rail interface in front of an existing scope, adding night vision capabilities to daytime target acquisition platforms.

The UNS-SR is installed, operated, and removed without tools and without affecting boresight (permanent boresight alignment). The unit can also be mounted on a spotting scope for long range observation, hand-held as a Night Observation Device (NOD), or used in other night operations requiring night vision capability.

The UNS-SR is optimized for CQB Weapons Such as M4, M16, M14, SR22 and Similar.

KEY FEATURES

Ideal for CQB weapon systems
45mm Refractive telephoto lens
Lightweight, only 570g

SYSTEM SPECIFICATIONS

Model Designator	UNS-SR
Size	142mm (length)
Weight	570g / 20 oz
Finish	Flat Black Matte, Corrosion Resistant
Controls	Pull On/Off Switch, Gain Control, Manual Focus
Power Source	One AA Battery
Battery Life	>24 hours
Waterproof	1m for 4 hours
Operating Mode	Clip-On Weapon Sight
Lens	45mm Refractive Telephoto Lens
Magnification	Unity Magnification
Focus Range	20m to infinity
Range - Recognition: Man	Starlight: >250m 1/4 Moon: 450m
Bore Sight	<0.5 MOA
Weapons Certification	CQB Weapons: M4, M16, M14, SR22, & similar
Cheek Weld	Unchanged
Eye Relief	Unchanged
Bullet impact	Unchanged

PVS-22

Universal Night Sight - Medium Range



ABOUT

The PVS-22 is a high-resolution Clip-on Night Vision Device which is ideal for medium to long range weapon systems. The PVS-22 mounts on any MIL-STD-1913 rail interface in front of an existing scope, adding high performance night vision capabilities to daytime target acquisition platforms.

The PVS-22 is equipped with the latest US-made Generation 3 Night Vision technology and a catadioptric objective lens to ensure maximum performance in low light conditions while remaining lightweight and compact.

The PVS-22 is installed, operated, and removed without tools and without affecting boresight (permanent boresight alignment). The unit can be mounted on a spotting scope for long range observation, hand-held as a Night Observation Device (NOD), or used in other night operations requiring night vision capability.

KEY FEATURES

Ideal for medium range weapon systems
68mm Catadioptric lens
1m and 20m submersible models available

SYSTEM SPECIFICATIONS

Model Designator	PVS-22
Size	185mm (length)
Weight	710 g / 25 oz
Finish	Flat/Matte Black, Corrosion Resistant
Controls	Pull On/Off Switch, Gain Control, Manual Focus
Power Source	One AA Battery or 1 CR123 Battery
Battery Life	AA Battery: >24 hrs CR123 Battery: >36 hrs
Waterproof	1m for 4 hours
Operating Mode	Clip-On Weapon Sight
Lens	68mm Catadioptric Lens
Magnification	Unity Magnification
Focus Range	20m to infinity
Range - Recognition	Starlight: >700m 1/4 Moon: >1000m
Bore Sight	<0.5 MOA
Weapons Certification	Medium to Long Range - M4, M24, up to .50cal.
Cheek Weld	Unchanged
Eye Relief	Unchanged
Bullet impact	Unchanged

UNS-A2

Universal Night Sight - Long Range



ABOUT

The UNS-A2 is a high-resolution Clip-on Night Vision Device that is ideal for use on medium to long range weapons such as an M4, M16, and up to .50 caliber rifles. The UNS-A2 mounts on any MIL-STD-1913 rail interface in front of an existing day scope, adding night vision capabilities to daytime target acquisition platforms.

The UNS-A2 utilizes the latest US Gen 3 night vision technology in a compact, rugged, lightweight, and waterproof design offering high performance night vision capability.

The UNS-A2 is installed, operated, and removed without tools and without affecting boresight (permanent boresight alignment). The unit can be mounted on a spotting scope for long range observation, hand-held as a Night Observation Device (NOD), or used in other night operations requiring night vision capability.

KEY FEATURES

Ideal for medium to long range weapon systems
50mm Refractive telephoto lens
Focus range of 15m to infinity

SYSTEM SPECIFICATIONS

Model Designator	UNS-A2
Size	158mm (length)
Weight	790 g / 27.8 oz
Finish	Flat/Matte Black, Corrosion Resistant
Controls	Pull On/Off Switch, Gain Control, Manual Focus
Power Source	One AA Battery or 1 CR123 Battery
Battery Life	AA Battery: >24 hrs CR123 Battery: >36 hrs
Waterproof	1m for 4 hours
Operating Mode	Clip-On Weapon Sight
Lens	50mm Refractive Telephoto Lens
Magnification	Unity Magnification
Focus Range	15m to infinity
Range - Recognition: Man	Starlight: >700m 1/4 Moon: >1000m
Bore Sight	<0.5 MOA
Weapons Certification	Medium to Long Range - M4, M24, up to .50cal.
Cheek Weld	Unchanged
Eye Relief	Unchanged
Bullet impact	Unchanged

PVS-30

Universal Night Sight - Long Range



ABOUT

The PVS-30 is a high-resolution, long range Clip-on Night Vision Device that mounts on any MIL-STD-1913 rail interface in front of an existing scope, adding night vision capabilities to daytime target acquisition platforms.

The PVS-30 offers high performance light collection in a lightweight package while ensuring the accuracy of your existing day optics is not degraded. PVS-30 has been tested for use on weapons up to .50 caliber rifles.

The PVS-30 is installed, operated, and removed without tools and without affecting boresight (permanent boresight alignment). The unit can be mounted on a spotting scope for long range observation, hand-held as a Night Observation Device (NOD), or used in other night operations requiring night vision capability.

KEY FEATURES

Ideal for long range sniper systems
120mm Refractive telephoto lens
Component of the U.S. Army sniper system

SYSTEM SPECIFICATIONS

Model Designator	PVS-30
Size	244mm (length)
Weight	1320 g / 46.5 oz
Finish	Flat/Matte Black, Corrosion Resistant
Controls	Pull On/Off Switch, Gain Control, Manual Focus
Power Source	One AA Battery or 1 CR123 Battery
Battery Life	AA Battery: >24 hrs CR123 Battery: >36 hrs
Waterproof	1m for 4 hours
Operating Mode	Clip-On Weapon Sight
Lens	120mm Refractive Telephoto Lens
Magnification	Unity Magnification
Focus Range	20m to infinity
Range - Recognition	Starlight: >800m 1/4 Moon: >1000m
Bore Sight	<0.5 MOA
Weapons Certification	Long Range: M24, M2, AS50, Barrett .50 Cal,
Cheek Weld	Unchanged
Eye Relief	Unchanged
Bullet impact	Unchanged

ATLAS

Thermal Imaging Binocular



ABOUT

ATLAS is the first commercially available thermal binocular based on 12-micron technology. Lightweight and fully waterproof, the N-Vision Optics ATLAS Thermal Binocular is extremely robust and capable. Constructed with durable composite plastics, it is significantly smaller in size and weight in comparison to other thermal binoculars on the market.

ATLAS delivers a high-resolution thermal image and extended detection, recognition, and identification ranges in even the most challenging environmental conditions. ATLAS is the first choice for search and rescue professionals, wildlife observers, hunters, sailors, and many others who demand only the best equipment.



KEY FEATURES

Rugged, Ergonomic Design
 Compact
 Waterproof
 Internal memory for image capture

SYSTEM SPECIFICATIONS

Material, structure & format	Amorphous Silicon Microbolometer
Sensor Resolution	640 x 480, 12 micron
Spectral Response	7.5 - 13.5 μ m
Refresh Rate	9Hz or 60Hz
Start-up Time	Less than 4 seconds
Detection Range	2250 meters
Lens Diameter	50 mm
Field of View	9° x 7°
Video Output	USB and Analog
Batteries	3 CR123
Power, external	USB
Dimensions (inches)	5.8L x 4.9L x 2.3H
Dimensions (centimeters)	14.8L x 12.5W x 6H
Weight	575 g / 20.2 oz
Waterproof	IP67 Waterproof Rating

TC35A

Clip-On Thermal Weapon Sight



ABOUT

The newly developed TC35A offers increased performance, enhanced modular design, and a considerable decrease in weight. Constructed with extremely durable composite molded plastic, the TC35A provides operators with an exemplary modular and incredibly lightweight Thermal Clip-On Sight, while maintaining the first-rate, rugged construction that is essential to mission success.

The TC35A attaches in front of the day scope on a MIL-STD-1913 (Picatinny rail), allowing the flexibility to use the sight on multiple weapons. The TC35A is fully collimated to maintain boresight with the day optic, eliminating the need to re-zero, when attached or detached from the weapon.

The TC35A can also be used as a stand-alone weapon scope, with four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Standard 2x and 4x digital zoom enables clear identification of targets before engaging.

The TC35A provides a significant advantage in detecting, observing and engaging targets in all conditions, day or night, while giving the user the most weapon functionality and application. The TC35A is easy to operate with ergonomic and clearly marked digital controls.

SYSTEM SPECIFICATIONS

Model Designator	TC35A
Detector	Uncooled vanadium oxide (VOx) microbolometer
Spectral Response	7.5 - 13.5 μm
Detector Resolution	336 x 256
Detector Pitch	17 μm
Frame Rate	30/60 Hz
Standard Mount	MIL-STD-1913 Picatinny or Weaver
Reticles	4 reticles selectable and adjustable to boresight
Focus	Fixed
Digital Zoom	1X, 2X, 4X
Polarity Control	Black hot/white hot
Display Type	Color OLED
Display Resolution	800 x 600
Power Source	4 CR123 batteries, external 12 VDC or USB
Detection - Man	800/880
Recognition - Man	200/225
Identification - Man	105/112
Detection - Vehicle	2250/2700
Recognition - Vehicle	590/680
Identification - Vehicle	290/340
Operating Temperature Range	-40°C to +50°C
Non-Operating Temperature Range	-40°C to +71°C
Protection Rating	IP68
Dimensions (inches)	7.9L x 3.2W x 3.1H
Dimensions (centimeters)	20L x 8.2W x 8H
Weight	696 g / 24.5 oz
Storage Type	Internal. Non-removable
Image Access	USB
Storage Capacity	400 images. Extended memory versions available.

TC50A

Clip-On Thermal Weapon Sight



ABOUT

The newly developed TC50A offers increased performance, enhanced modular design, and a considerable decrease in weight. Constructed with extremely durable composite molded plastic, the TC50A provides operators with an exemplary modular and incredibly lightweight Thermal Clip-On Sight, while maintaining the first-rate, rugged construction that is essential to mission success.

The TC50A attaches in front of the day scope on a MIL-STD-1913 (Picatinny rail), allowing the flexibility to use the sight on multiple weapons. The TC50A is fully collimated to maintain boresight with the day optic, eliminating the need to re-zero, when attached or detached from the weapon.

The TC50A can also be used as a stand-alone weapon scope, with four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Standard 2x and 4x digital zoom enables clear identification of targets before engaging.

The TC50A provides a significant advantage in detecting, observing and engaging targets in all conditions, day or night, while giving the user the most weapon functionality and application. The TC50A is easy to operate with ergonomic and clearly marked digital controls.

SYSTEM SPECIFICATIONS

Model Designator	TC50A
Detector	Uncooled vanadium oxide (VOx) microbolometer
Spectral Response	7.5 - 13.5 μm
Detector Resolution	640 x 512
Detector Pitch	17 μm
Frame Rate	30 Hz
Standard Mount	MIL-STD-1913 Picatinny or Weaver
Reticles	4 reticles selectable and adjustable to boresight
Focus	Fixed
Digital Zoom	1X, 2X, 4X
Polarity Control	Black hot/white hot
Display Type Color	OLED
Display Resolution	800 x 600
Power Source	4 CR123 batteries, external 12 VDC or USB
Detection - Man	1500/1700
Recognition - Man	380/430
Identification - Man	190/215
Detection - Vehicle	3900/5100
Recognition - Vehicle	1060/1320
Identification - Vehicle	540/660
Operating Temperature Range	-40°C to +50°C
Non-Operating Temperature Range	-40°C to +71°C
Protection Rating	IP68
Dimensions (inches)	9.1L x 3.2W x 3.1L
Dimensions (centimeters)	20.3L x 8.2W x 8H
Weight	831 g / 29.3 oz
Storage Type	Internal. Non-removable
Image Access	USB
Storage Capacity	400 images. Extended memory versions available.

TWS13A

Dedicated Thermal Weapon Sight



ABOUT

N-Vision Optics' thermal weapon sight TWS13-A provides soldiers with a significant advantage in detecting, observing and engaging targets in all conditions, day or night. Combining a rugged and lightweight housing made out of hi-tech plastic composite material, with advanced thermal imaging technology, the TWS13-A generates superior IR images and ensures target acquisition at the maximum possible range.

The TWS13-A is easy to operate with ergonomic and clearly marked digital controls. The TWS13-A features a 336x256 resolution thermal core and is available with a 60Hz refresh rate for a fast, crisp thermal image.

The TWS13-A includes four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Polarity is displayed in either white hot or black hot options to best suit the tactical scenario. Standard 2x and 4x digital zoom enables clear identification of targets before engaging them. The TWS13-A allows the user to photograph targets, save images to internal storage and later download them to a computer via USB cable.

KEY FEATURES

Locate, Identify and Engage Targets Day or Night
 Compact & Lightweight Mil-Spec Housing
 Intuitive Digital Controls
 Internal Memory for Image Capture
 4 User-selectable Reticle Patterns

SYSTEM SPECIFICATIONS

Model Designator	TWS13A
Detector	Uncooled vanadium oxide (VOx) microbolometer
Spectral Response	7.5 - 13.5 μm
Detector Resolution	336 x 256
Detector Pitch	17 μm
Frame Rate	30/60 Hz
Objective Lens	35mm
Reticles	4 reticles selectable and adjustable to boresight
Digital Zoom	1X, 2X, 4X
Polarity Control	Black hot/white hot
Display Resolution	800 x 600
Detection - Man Size Target	820/930 meters
Recognition - Man Size Target	210/230 meters
Identification - Man Size Target	104/116 meters
Operating Temperature Range	-40°C to +50°C
Protection Rating	IP68
Dimensions (inches)	7.3L x 3.2W x 3.1H
Dimensions (centimeters)	18.5L x 8.2W x 8H
Weight	662.5 g / 23.3 oz
Power Source	4 CR123 batteries, external 12 VDC or USB
Standard Mount	MIL-STD-1913 Picatinny or Weaver
Storage Type	Internal. Non-removable
Image Access	USB

TWS13B

Dedicated Thermal Weapon Sight



ABOUT

N-Vision Optics' thermal weapon sight TWS13-B provides soldiers with a significant advantage in detecting, observing and engaging targets in all conditions, day or night. Combining a rugged and lightweight housing made out of hi-tech plastic composite material, with advanced thermal imaging technology, the TWS13-B generates superior IR images and ensures target acquisition at the maximum possible range.

The TWS13-B is easy to operate with ergonomic and clearly marked digital controls. The TWS13-B features a 336x256 resolution thermal core and is available with a 60Hz refresh rate for a fast, crisp thermal image.

The TWS13-B includes four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Polarity is displayed in either white hot or black hot options to best suit the tactical scenario. Standard 2x and 4x digital zoom enables clear identification of targets before engaging them. The TWS13-B allows the user to photograph targets, save images to internal storage and download them to a computer via USB cable at a later time.

KEY FEATURES

Locate, Identify and Engage Targets Day or Night
 Compact & Lightweight Mil-Spec Housing
 Intuitive Digital Controls
 Internal Memory for Image Capture
 4 User-selectable Reticle Patterns

SYSTEM SPECIFICATIONS

Model Designator	TWS13B
Detector	Uncooled vanadium oxide (VOx) microbolometer
Spectral Response	7.5 - 13.5 μm
Detector Resolution	336 x 256
Detector Pitch	17 μm
Frame Rate	30/60 Hz
Objective Lens	50 mm
Reticles	4 reticles selectable and adjustable to boresight
Digital Zoom	1X, 2X, 4X
Polarity Control	Black hot/white hot
Display Resolution	800 x 600
Detection - Man Size Target	1500/1700 meters
Recognition - Man Size Target	380/430 meters
Identification - Man Size Target	190/215 meters
Operating Temperature Range	-40°C to +50°C
Protection Rating	IP68
Dimensions (inches)	8.5L x 3.2W x 3.1H
Dimensions (centimeters)	21.5L x 8.2W x 8H
Weight	797.5 g / 28.1 oz
Power Source	4 CR123 batteries, external 12 VDC or USB
Standard Mount	MIL-STD-1913 Picatinny or Weaver
Storage Type	Internal. Non-removable
Image Access	USB

TWS13C

Dedicated Thermal Weapon Sight



ABOUT

N-Vision Optics' thermal weapon sight TWS13-C provides soldiers with a significant advantage in detecting, observing and engaging targets in all conditions, day or night. Combining a rugged and lightweight housing made out of hi-tech plastic composite material, with advanced thermal imaging technology, the TWS13-C generates superior IR images and ensures target acquisition at the maximum possible range.

The TWS13-C is easy to operate with ergonomic and clearly marked digital controls. The TWS13-C features a 640x512 high resolution thermal core which provides a highly detailed thermal image and extended detection, recognition, and identification ranges.

The TWS13-C includes four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Polarity is displayed in either white hot or black hot options to best suit the tactical scenario. Standard 2x and 4x digital zoom enables clear identification of targets before engaging them. The TWS13-C allows the user to photograph targets, save images to internal storage and download them to a computer via USB cable at a later time.

KEY FEATURES

Locate, Identify and Engage Targets Day or Night
 Compact & Lightweight Mil-Spec Housing
 Intuitive Digital Controls
 Internal Memory for Image Capture
 4 User-selectable Reticle Patterns

SYSTEM SPECIFICATIONS

Model Designator	TWS13C
Detector	Uncooled vanadium oxide (VOx) microbolometer
Spectral Response	7.5 - 13.5 μm
Detector Resolution	640 x 512
Detector Pitch	17 μm
Frame Rate	30 Hz
Objective Lens	35mm
Reticles	4 reticles selectable and adjustable to boresight
Digital Zoom	1X, 2X, 4X
Polarity Control	Black hot/white hot
Display Resolution	800 x 600
Detection - Man Size Target	820/930 meters
Recognition - Man Size Target	210/230 meters
Identification - Man Size Target	104/116 meters
Operating Temperature Range	-40°C to +50°C
Protection Rating	IP68
Dimensions (inches)	7.3L x 3.2W x 3.1H
Dimensions (centimeters)	18.5L x 8.2W x 8H
Weight	662.5 g / 23.3 oz
Power Source	4 CR123 batteries, external 12 VDC or USB
Standard Mount	MIL-STD-1913 Picatinny or Weaver
Storage Type	Internal. Non-removable
Image Access	USB

TWS13D

Dedicated Thermal Weapon Sight



ABOUT

N-Vision Optics' thermal weapon sight TWS13-D provides soldiers with a significant advantage in detecting, observing and engaging targets in all conditions, day or night. Combining a rugged and lightweight housing made out of hi-tech plastic composite material, with advanced thermal imaging technology, the TWS13-D generates superior IR images and ensures target acquisition at the maximum possible range.

The TWS13-D is easy to operate with ergonomic and clearly marked digital controls. The TWS13-D features a 640x512 high resolution thermal core which provides a highly detailed thermal image and extended detection, recognition, and identification ranges.

The TWS13-D includes four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Polarity is displayed in either white hot or black hot options to best suit the tactical scenario. Standard 2x and 4x digital zoom enables clear identification of targets before engaging them. The TWS13-D allows the user to photograph targets, save images to internal storage and download them to a computer via USB cable at a later time.

KEY FEATURES

Locate, Identify and Engage Targets Day or Night
 Compact & Lightweight Mil-Spec Housing
 Intuitive Digital Controls
 Internal Memory for Image Capture
 4 User-selectable Reticle Patterns

SYSTEM SPECIFICATIONS

Model Designator	TWS13D
Detector	Uncooled vanadium oxide (VOx) microbolometer
Spectral Response	7.5 - 13.5 μm
Detector Resolution	640 x 512
Detector Pitch	17 μm
Frame Rate	30 Hz
Objective Lens	50 mm
Reticles	4 reticles selectable and adjustable to boresight
Digital Zoom	1X, 2X, 4X
Polarity Control	Black hot/white hot
Display Resolution	800 x 600
Detection - Man Size Target	1500/1700 meters
Recognition - Man Size Target	380/430 meters
Identification - Man Size Target	190/215 meters
Operating Temperature Range	-40°C to +50°C
Protection Rating	IP68
Dimensions (inches)	8.5L x 3.2W x 3.1H
Dimensions (centimeters)	21.5L x 8.2W x 8H
Weight	797.5 g / 28.1 oz
Power Source	4 CR123 batteries, external 12 VDC or USB
Standard Mount	MIL-STD-1913 Picatinny or Weaver
Storage Type	Internal. Non-removable
Image Access	USB

TWS13H

Thermal Weapon Sight



ABOUT

N-Vision Optics' thermal weapon sight TWS-13 provides soldiers with a significant advantage in detecting, observing and engaging targets in all conditions, day or night. Combining a rugged and lightweight housing made out of aircraft grade 6061-T6 aluminum, with thermal imaging technology, the TWS-13 generates superior IR images and ensures target acquisition at the maximum possible range.

The TWS-13 is easy to operate with ergonomic and clearly marked digital controls. The weapon sight is available in a variety of models with a choice of thermal detectors and a large array of optics to precisely match the operator's requirements and weapons.

The TWS-13 includes four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Polarity is displayed in either white hot or black hot options to best suit the tactical scenario. Standard 2x and 4x digital zoom enables clear identification of targets before engaging them. The TWS-13 allows the user to photograph targets, save images to internal storage and later download them to a computer via USB cable.

KEY FEATURES

Digital 2x/4x image zoom to magnify target and improve aimpoint
 Storage of 400 images with USB download interface
 4 user selectable reticles
 Wide choice of thermal detectors and optics

SYSTEM SPECIFICATIONS

Model Designator	TWS13A-H	TWS13D-H
Detector Resolution	336 x 256	640 x 512
Detector Pitch	17 μm	17 μm
Frame Rate	30 Hz	30 Hz
Objective Lens	100 mm f/1.2	100 mm f/1.2
FOV (h x v)	3.3° x 2.5°	6.2° x 5.0°
Detection Range (typical/best)	2450/2950	
Recognition Range (typical/best)	650/750	
Identification Range (typical/best)	330/380	
Diopter Adjustment	- 6 to + 2	
Eye Relief	48mm	
Digital Zoom	1X, 2X, 4X	
Operating Temperature Range	-40°C to +50°C	
Power Source	4AA (CR123 version is available)	
Standard Mount	MIL-STD-1913 Picatinny or Weaver	
Dimensions (inches)	14L x 3.5W x 3.9H	
Dimensions (centimeters)	35.5L x 8.9W x 10H	
Weight	1600 g / 56.4 oz	

Accessories

PVS -14 Dual Mount Adapter

The dual mount adapter allows for two PVS-14 night vision monoculars to be mounted together, forming a binocular night vision device. The PVS-14 adapter features two rings that attach around the PVS-14 objective locking ring. The mount can be adjusted for interpupillary distance. The adapter is available in 2 versions: standard USGI Bayonet mount or a PVS-15/18 Dovetail mount.

Compatible: AN/PVS-14



PVS-14 Advanced Dual Bridge Adapter

Allows the connection of two AN/PVS-14 monoculars to form a dual tube binocular system. The Dual Bridge features a modular design allowing the night vision system to be used in single or double tube configuration.

When flipped up, each monocular stows along the contour of the helmet thereby eliminating the "NOD-Smack" damage from doorBridge, without needing any tools.

Compatible: AN/PVS-14



GT-14 Dual Mount Adapter

The dual mount adapter allows for two night vision monocular systems to be mounted together, forming a binocular night vision device. The GT-14/MUM/Mini-14 adapter attaches via the quick rail interface and allows vertical and binocular swivel adjustments. The adapter is available in 2 versions: standard USGI Bayonet mount or a PVS-15/18 Dovetail mount.

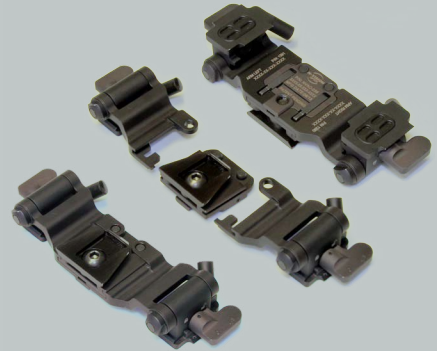
Compatible: GT-14, MUM/Mini-14



Mini N/SEAS Dual Bridge

N-Vision Optics Dual Bridge allows the connection of two Mini N/SEAS monoculars to form a dual tube binocular system. The Dual Bridge features a modular design allowing the night vision system to be used in single or double tube configuration. The Dual Bridge is compatible with Norotos or Wilcox PVS-15 type non-magnetic helmet mounts.

Compatible: Mini N/SEAS



3x Magnifier Lens

The 3x magnifier lens nearly triples the range of night vision devices under all light conditions. This high performance lightweight magnifier can be threaded or snapped onto the objective lens. Incorporates very fast optics (F/1.5) with a field of view of 13°.

Compatible: universal compatibility with all night vision monoculars, binoculars and goggles



5x Magnifier Lens

The 5x magnifier further increases the range of the night vision device. The high performance magnifier can be threaded or snapped onto the objective lens. Magnifier has a field of view of 7.5°.

Compatible: universal compatibility with all night vision monoculars, binoculars and goggles



Accessories

Night Vision Adapter for TwistMount (NVAT)

The NVAT enables the switch between the Aimpoint® 3XMag or Concealed Engagement Unit (CEU) and AN/PVS-14 in less than 5 seconds with no tools required. NVAT Adapters allow for the AN/PVS-14 night vision monocular (or compatible) to snap on directly to the Aimpoint® TwistMount™ Base in place of the 3XMag or CEU. Also available is NVAT-GT which is compatible with the GT-14 night vision monocular.

Compatible: PVS-14, GT-14



Purge Kit

The Purge Kit is a portable and efficient kit used to evacuate air from the night vision device and backfill the system with dry nitrogen. The purge kit operates via an easy-to-operate manual vacuum pump requiring no electricity. The kit contains all the components needed to purge night vision devices both at the maintenance facility and while in the field.

Compatible: PVS-14, PVS-7, GT-14, G15, BTS



INVG Helmet Mount Assembly

The Improved Night Vision Goggle Helmet Mount Assembly (INVG-HMA) features the latest helmet mount technology, unique stowage positions, and patented safety feature to assure continued system functionality when exposed to harsh environmental and combat conditions.

Compatible: PVS-7, PVS-15, PVS-18, PVS-21, BNVD, G15, GT-14.



TATM Helmet Mount

The Titanium Advanced Tactical Helmet Mount assembly (TATM HMA) is safe, reliable, durable, user friendly and provides optimal comfort and unique fit to each operator. TATM features safety locking and release systems, not allowing the NVD to inadvertently release from the helmet mount.

Compatible with: PVS-7, PVS-15, PVS-18, PVS-21, BNVD, G15, GT-14.



AKA2 Helmet Mount

The AKA2 mount is precision manufactured from high grade metal aluminum alloys to achieve ultimate strength and tight tolerances resulting in the best wobble-free helmet mount on the market. AKA2 features right eye / left eye option for viewing and stowage allows for continued peripheral viewing of NVG system for enhanced safety.

Compatible with: PVS-7, PVS-14, GT-14, G15, BNVD and PVS 15/18/21.



Standard Helmet Mount

Allow the user to attach a night vision device directly to a PASGT or ACH/MICH helmet.

Includes flip-up/flip-down capability, fore-and-aft. and tilt adjustments.

Compatible with: PVS-14, GT-14, PVS-7, BNVD, G15.



Accessories

Magnetic Compass

Displays a compass reading as an overlay to the night vision scene. Automatically focused for simple operation, it is activated by a momentary-pressure switch that illuminates the compass bearings but does not degrade low-light performance of the night vision device.

Compatible: PVS-7, PVS-15, PVS-18, PVS-21, BNVD, G15, GT-14.



GT-14 Weapon Mount

The weapon mounts are used to attach the GT-14 night vision monocular to a variety of weapons that are equipped with Picatinny (MIL-STD 1913) rail. Weapon mounts work in conjunction with night vision compatible tactical weapon sights.

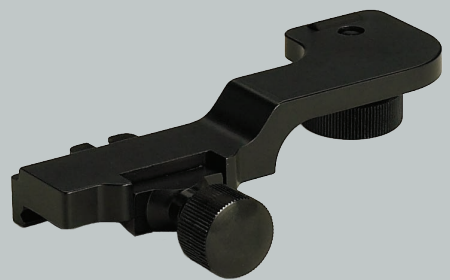
Compatible with: GT-14, MUM/Mini-14



PVS-14 Weapon Mount

The weapon mounts are used to attach the PVS-14 night vision monocular to a variety of weapons that are equipped with Picatinny (MIL-STD 1913) rail. Weapon mounts work in conjunction with night vision compatible tactical weapon sights.

Compatible with: PVS-14, GT-14, PVS-7, BNVD, G15.



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