

Binocular Night Vision System

PVS-31C-4B

Experience Superior
Perception, Flexibility,
and Durability.



ADVANCED PHOTONICS



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PVS-31C-4B

BINOCULAR
NIGHT VISION
SYSTEM

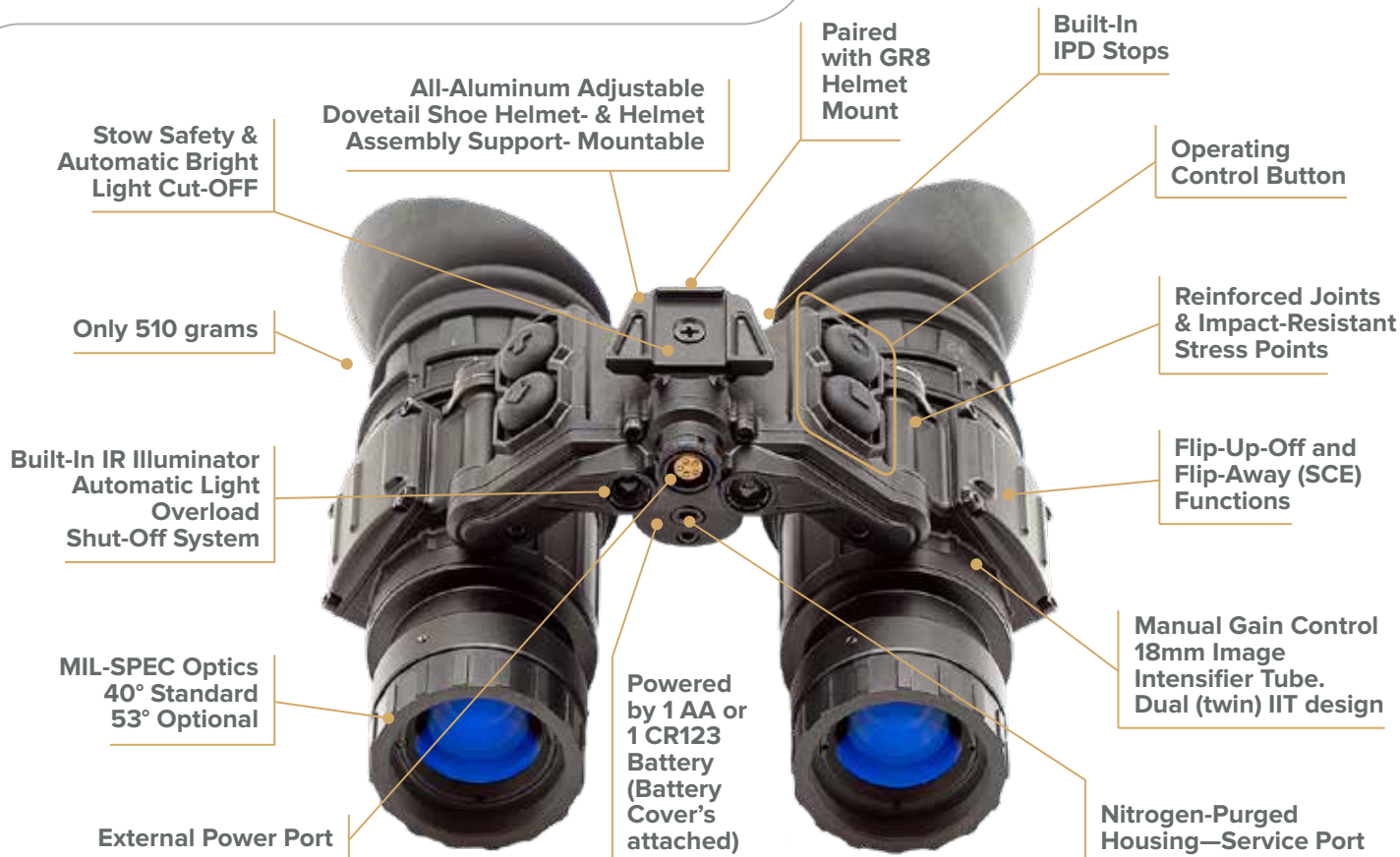


The **PVS-31C-4B** are **MIL-SPEC** binocular night vision system, offering unmatched depth perception, operational flexibility, user-friendly controls, and a rugged package. The **PVS-31C-4B** can be used as helmet-mounted, hand-held, or head-mounted device.

The **PVS-31C-4B** ergonomic and low-profile design allows user to store, operate and stow the device without complications or compromises at any time and in any conditions. User can use commercially available lithium or rechargeable **1xAA or 1xCR123 batteries**, as well as external power supply. Crafted from lightweight aluminum and other rugged materials, it features low reflective, matte finish body coating, advanced multi-coated optic elements that deliver exceptional image clarity.

Key functions include flip-up auto shut-off, external power input, selective channel activation (left, right, or both), and IR illuminator for Map Reading / Zero Light Capability. Safety features help prevent accidental activation while stowed. Built-in IPD stops allow for repeatable adjustment of the optical pods to match the user's eye spacing, improving ease of use and reducing setup time. **GSCI** offers a wide array of optional accessories including **TICON** thermal clip-on overlay, magnification lenses, battery packs like **MVP-240™**, and helmet mounts. The **PVS-31C-4B** delivers reliable performance, enabling mission success in even the darkest environments.

ADVANTAGES OF PVS-31C-4B



Binocular Night Vision System

PVS-31C-4B

PVS-31C-4B TECHNICAL SPECIFICATIONS



OPTICAL

Optical Magnification	1X
Objective Lens Focal Length	27mm f/1.2
Field Of View	40° ±2° (Optional 53°)
Focusing Range	9.8" to Infinity (±1.1") (25cm to Infinity (±3cm))
Continuous Diopter Adjustment Range	-6 to +2
Interpupillary Distance (IPD) Stop	Yes
Fixed Interpupillary Adjustment Range	50mm to 80mm
Eyepiece Eye Relief	25mm
Eyepiece Exit Pupil	14mm

FEATURES

Digital Push Button Controls	Yes
Flip-Up-OFF Stowage Mode	Yes (45°)
Flip-Away Selective Channel Engagement (SCE)	Yes
Built-In IR Illuminator	Yes
Internal IR-On Indicator	Yes: Eye-Friendly LED, Concealed into FOV
Adjustable IR Illuminator Intensity	Yes
Adjustable Light Sensor Sensitivity	Yes
Programmable Automatic Shutdown	Yes: 10 to 60 Minutes of Inactivity
Bright Light Protection	Yes: Auto Cut-OFF
Bright Light Sensor	Yes: Built-In
Internal Low Battery Indicator	Yes: Eye-Friendly LED, Concealed into FOV
Stow Safety Feature (SSF)	Yes
Made in Canada	Designed & Manufactured by GSCI, ITAR Free

BODY

Housing Material	6061-T6 Aluminium Alloy
Colour & Coating	Black / Tan: Low Reflective, Matte Finish
Dimensions	105x101x76mm
Weight (w/o accessories)	±510 grams
Environmental Protection	Min. IP67, Nitrogen-Purged Housing (MIL-STD-810G)
Water & Corrosion Resistance	Yes
Operating Temperature	-40°C .. +50°C
Storage Temperature	-50°C .. +65°C

IMAGE INTENSIFICATION

IIT Format	18mm: Gen 3, Gen2+, Vivid, ECHO, 4G
Phosphor Screen Colour	P45 White / P43 Green
Auto-Gating	Yes
Manual Gain Control (MGC)	Yes: IIT Dependant

* Batteries are not included.

** Typical weight of an IIT is between 70 and 85 grams as per IIT manufacturers' specifications and total weight of the system may vary.

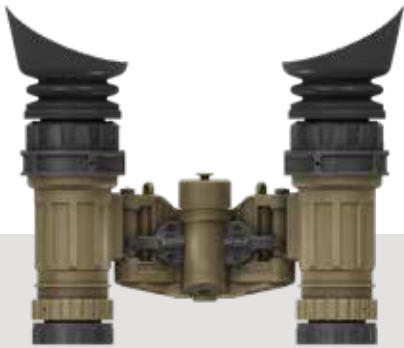
POWER

Reverse Battery Polarity Protection	Yes
Power Source	Commercially Available Lithium/Rechargeable 1pc AA or 1pc CR123, and Battery Pack MVP-240™
External Power Supply	4VDC to 15VDC
Battery Life on 1x AA / 1x CR123 (Lithium)	Up to 40 Hours at 20°C (±5°C); Without IR Light
Battery Life on MVP-240	Up to 240 Hours at 20°C (±5°C); Without IR Light

Binocular Night Vision System

PVS-31C-4B

DISTINCTIVE FEATURES



IPD STOPS INTERPUPILLARY DISTANCE ADJUSTMENT

IPD Stops provide quick, repeatable alignment of the optical pods to match the user's eye spacing. Once set, these mechanical limits allow the operator to deploy or stow the goggles without losing their customized interpupillary distance setting.

This feature enhances comfort, reduces setup time during missions, and ensures optimal image quality by maintaining precise optical alignment. IPD Stops are particularly beneficial in multi-user environments and high-tempo operations where rapid deployment is critical.

BUNGEE CORD SYSTEM

The Bungee Cord Retention System ensures secure, stable mounting of **PVS-31C-4B** to a helmet, minimizing wobble and movement during dynamic operations.

By providing constant tension, the bungee cords keep the device firmly seated in the helmet mount, improving comfort and maintaining optimal eye relief. This system is fully compatible with most modern tactical helmets, shrouds and mounts with break away feature.

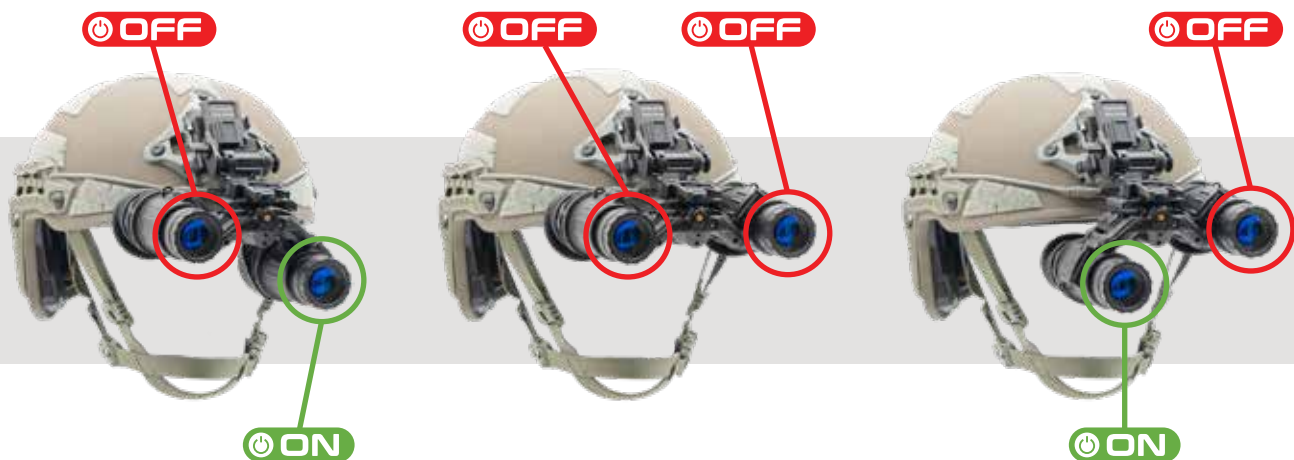


Binocular Night Vision System

PVS-31C-4B

DISTINCTIVE FEATURES

FLIP-AWAY - SELECTIVE CHANNEL ENGAGEMENT FUNCTION



The PVS-31C-4B has independently hinged channels to be flipped out of the operator's line of sight. When used with GR8™ helmet mount or other compatible mounts, articulating night vision channel up disengages it. The PVS-31C-4B can effectively become a single-eye goggle system to have one eye un-aided while operating BNVSSs. System warning lights (IR-On / Low battery) will stay active in the operating channel.

(Demonstrated with Batlskin Caiman Ballistic Helmet)

STOWAGE MODE - FLIP-UP-OFF & ON FUNCTION



The PVS-31C-4B has stowage mode function to be flipped out of the operator's line of sight. When mounted on a flip-up GR8™ helmet mount or other compatible mounts PVS-31-4B turns OFF once in stowed position. After returning it to the operational position, the device has a user-configurable setting to automatically turn back ON. Function is prevented from activating by accident when in use and vice-versa regardless of the movements or position of the user.

(Demonstrated with Batlskin Caiman Ballistic Helmet)

Binocular Night Vision System

PVS-31C-4B

DISTINCTIVE FEATURES



COMPATIBILITY WITH HELMET SUPPORT ASSEMBLIES AND HELMET MOUNTS

PVS-31C-4B has an Adjustable Dovetail Shoe paired with GR8™ Helmet Mount (compatible with other mounts) from the factory. Shoe can be re-adjusted or replaced throughout the service life.

Field Interchangeable. Designed to fit standard helmet mounts, and VAS-standard shrouds.

ERGONOMIC & AMBIDEXTROUS TACTILE PUSH BUTTON CONTROLS

Comes with digital push button controls that can be easily operated, even while wearing tactical and winter gloves.

Controls are ambidextrous and can be customized by the user.



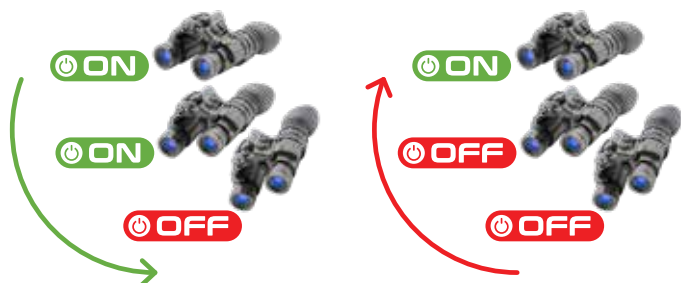
EXTENDED RANGE OBSERVATION

PVS-31C-4B accepts afocal objective lenses with 3X and 5X optical magnification that are attached to the existing 1X lenses.



EXTERNAL POWER PORT

Along with commercially available AA and CR123 batteries, PVS-31C-4B can be powered from external power sources such as GSCI MVP-240™, USB Power Banks and 12V car power supply.



STOW SAFETY FEATURE

If activated, the SSF feature shuts off the unit once it is stowed and powers the unit back up when it is returned back to the horizontal position. SSF is used to stay covert in night-time operations.

This feature is user-configurable and can be disabled using a Service Menu at any time.



ADVANCED PHOTONICS



GR8™

ADVANCED
LOW-PROFILE
SHROUD-READY
HELMET MOUNT



Introducing a revolutionary helmet mount for optical-electronic devices, specifically designed for military and law enforcement personnel. This mount is crafted with lightweight yet sturdy aluminum alloy, ensuring that it can withstand the rigors of intense combat situations.

The mount features 8-way adjustments, providing a level of versatility that surpasses its competitors. The adjustments allow for a wide range of positioning, enabling users to achieve the optimal viewing angle for their specific needs.

The design of this mount is tailored specifically to meet the needs of military and law enforcement professionals, with a sleek and low-profile aesthetic that minimizes obtrusiveness and maximizes functionality. The mount is also easy to install and detach, allowing for quick and efficient setup and removal when necessary. Overall, this helmet mount is a game-changer for military and law enforcement personnel who require a lightweight, strong, and highly adjustable mount to support their critical missions.

ADVANTAGES OF GR8™

GR8™ Advanced Low-Profile Shroud-Ready Helmet Mount with PVS-31C-MOD



KEY FEATURES

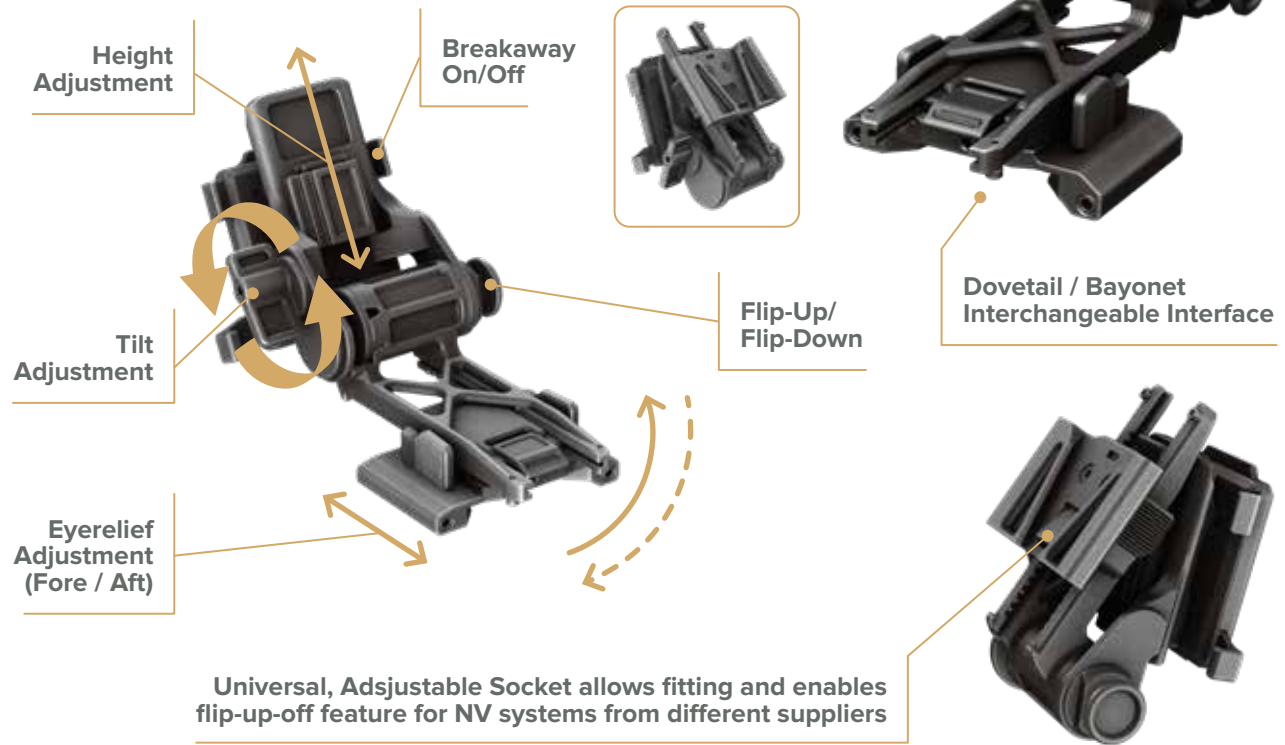
- Full Compatibility with VAS Shrouds
- Wider Ranges of Adjustments than Competitors
- 8-Position Adjustments
- Personalized Device Positioning
- Dovetail and Bayonet Brackets
- Ultra Lightweight
- Durable and Reliable
- Made in Canada, ITAR-Free

GR8™

ADVANCED LOW-PROFILE
SHROUD-READY HELMET MOUNT



TECHNICAL SPECIFICATIONS



GR8™ TECHNICAL SPECIFICATIONS		MOUNTS FROM OTHER WORLD'S LEADING BRANDS
Weight	166 grams (5.85)	Up to 187 grams (6.5OZ)
Dimensions	8.35cm L x 6.35cm W x 5cm H	Avg. 10.11cm L x 6.6cm W x 6.1cm H
	(3.29" L x 2.5" W x 1.98" H)	(3.98" L x 2.60" W x 2.40" H)
Flip-Up/Down View to Stow	130° Travel	<= 130° Travel
Fore-Aft (Tilt)	0-18°	Avg. 0-15°
Height Adjustment	27mm (1.1") Total Vertical Travel	Avg. 22mm (0.9") Total Vertical Travel
Eyerelief Travel	45mm (1.8") Total Travel	Avg. 33mm (1.3") Total Travel
Auto ON/OFF	Built-In	Vary/Unknown
Breakaway	Built-In	Vary/Unknown
Universal Socket	Yes	No
Material	Aluminum 6061-T6	Aluminum/Polymer
Warranty	7-Year Warranty	1 .. 5 Years Warranty



ADVANCED PHOTONICS



MVP-240™

UNIVERSAL
MULTI-VOLTAGE
GROUND
FORCE
BATTERY
PACK



The **MVP-240™** is the only battery pack on the market capable of supplying three different voltages to provide reliable and uninterrupted power to a wide variety of electronic and electro-optical systems. It is a universal powering tool for lengthy missions in remote locations where battery charging equipment is not accessible.

The **MVP-240™** is particularly useful with helmet-mountable NVGs. Instead of carrying “dead weight” in a form of a standard counterweight at the back of a helmet, the **MVP-240™** serves a dual purpose by supplying power to the NVG while being a counterweight at the same time.

The **MVP-240™** can be mounted on a firearm's Picatinny rail to substantially increase operation time of a night vision, thermal, or fusion rifle scope without obstructing access to main controls of a firearm. The excellent weight distribution of this battery pack makes operation of a firearm just as comfortable as if the MVP-240™ was not attached at all. For the user's convenience and freedom of choice, the **MVP-240™** does not have or use any proprietary or built-in batteries. It accepts all standard AA batteries widely available anywhere in the world: Alkaline, Ni-MH / Rechargeable, Lithium, and so on.

ADVANTAGES OF MVP-240™



KEY FEATURES

- Adds up to 240 Hours to NVG Operation Time
- Tri-Port Design: Supplies 3VDC, 5VDC, and 12VDC
- Accepts 8 Standard AA Batteries of Any Kind
- Fits Picatinny MIL-STD-1913 / STANAG 4694 Rails and Helmets
- Compact Dual-Chamber Enclosure
- Mil-Spec Compliant
- Compartment Selector
- Comes with Slide-and-Lock Picatinny Rail
- In-Built MIL-STD-1913 Mount w/Quick Release Lever
- Powers Night Vision / Thermal / Fusion and Other
- Electronic / Electro-Optical Systems

MVP-240™

UNIVERSAL MULTI-VOLTAGE
GROUND FORCE BATTERY PACK



TECHNICAL SPECIFICATIONS

Compatibility with GSCI Devices	All GSCI-Made Devices with External Power Port
Compatibility with Other Devices	All Electronic / Electro-Optical Devices that Accept 3VDC, 5VDC or 12VDC External Power Input and Electronic Devices that Accept USB Power Input: Cell Phones, Tablets, etc.
Accepted Batteries	8pcs AA of Any Kind: Lithium, Rechargeable (Ni-MH), Alkaline, etc.
Attachment to Helmet	Velcro® or Quick Release Picatinny Mount via Slide-and-Lock Rail
Attachment to Firearm	Quick Release Picatinny Mount
Maximum Operation Time: NVG1	350 to 650 Hours
Maximum Operation Time: Thermal Device2	20 Hours
Maximum Operation Time: Fusion Device3	10 Hours
Body Material	Hard Anodized Aluminum
Dimensions	93x48x115 mm 3.66 x 1.89 x 4.53 in
Weight without Batteries*	330 grams 0.72 lbs
MIL-STD-810 Compliance	Yes
MIL-STD-461 Compliance	Yes
Warranty	7 Years
Export	Available Worldwide: No Export License Required

Maximum operation times are given for GSCI-made devices when the MVP-240™ is equipped with 8pcs brand new lithium batteries:

1 - Night Vision Monocular PVS-14C-MOD

2 - Thermal Imaging Device TI-GEAR Series

3 - Fusion Device QUADRO-S

Maximum operation times on other systems may vary.

*Actual weight of the MVP-240™ with batteries varies depending on a battery type being used.

Batteries are not included.



MVP-240™ can be attached to the back of the helmet by using Velcro® or enclosed Picatinny rail



The add-on Slide-and-Lock Accessory Rail allows attaching the MVP-240™ to virtually any surface

KIT CONTENTS

MVP-240™ Battery Pack

Accessory Rail

Power-Out Cable

4 pcs. of "Quick Swap" Battery Cartridges

Soft Carrying Pouch.



MVP-240™ can be attached to any optical-electronic device which already has an accessory rail or by using the supplied one



DESIGNED, DEVELOPED, MANUFACTURED BY GSCI ADVANCED PHOTONICS
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DISCLAIMER

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Binocular Night
Vision System

PVS 31C-4B

KEY BENEFITS

TRUE DEPTH PERCEPTION: With dual-tube design, the PVS-31C-4B provides realistic depth perception and standard, 40° field of view, making it far superior to single-tube systems for tasks requiring precise spatial awareness and driving in low-light environments. Optional 53° Wide-FOV optics upgrade is available.

FLIP-AWAY CHANNELS: Each channel (ocular) can be independently flipped away for instant transitions between night vision and unaided vision. When not in use, the system stows neatly along the helmet's profile, reducing bulk and enhancing operator comfort. The IPD stops ensure that each channel returns to its proper operational position.

ADJUSTABLE DOVETAIL SHOE: The mount system is designed to minimize vibration and prevent any unintended movement that could distract the user during operation. The adjustable Dovetail Shoe maintains a secure and stable connection with the PVS-31C-4B, even after prolonged use. The system also includes a method for re-securing the fitment of the attachment to ensure continued reliability over time.

HELMET MOUNTING FEATURES: Both PVS-31C-4B and GR8™ Helmet Mount are equipped with an Adjustable Dovetail Shoe and designed to fit standard helmet mounts, and VAS-standard helmet shrouds. The GR8™ is equipped with a break-away safety feature, designed to automatically disengage from the helmet or helmet support assembly in the event of a snag hazard or sudden impact, helping to prevent injury and protect the device and users health.

EXTENDED POWER OPTIONS: The PVS-31C-4B operates with a standard, commercially available non-rechargeable and rechargeable AA and CR123 batteries, but also supports an external battery pack for extended missions, providing up to 120 hours of continuous use.

DUAL BATTERY COMPATIBILITY WITH TOOL-FREE REPLACEMENT: The PVS-31C-4B is designed to accept CR123 or AA batteries with bi-directional polarity, allowing for fast and error-free battery replacement in any lighting condition. Once a battery type is selected, the corresponding battery cap is permanently secured to the BNVS housing. If needed, the battery cap type can be changed by the manufacturer or an authorized service center. The system supports tool-free battery changes and allows for quick polarity identification, even in darkness and while wearing cold or wet weather gloves.

INTUITIVE CONTROLS: The PVS-31C-4B has 4 buttons digital controls, designed to prevent accidental activation of IR Illuminator and other standard BNVS controls and adjustments that can be operated at night time wearing tactical and winter gloves

USER-CONFIGURABLE SYSTEM: The PVS-31C-4B can be user-configured following instructions in the user manual using intuitive controls for seamless and easy to use adjustments.

RUGGED, MIL-SPEC DESIGN: Built to full MIL-SPEC standards, the PVS-31C-4B offers exceptional durability in harsh environments. From arctic cold to desert heat, this system is engineered to withstand the rigors of extreme conditions without compromising performance. Coating of the BNVS system prevents its surface from rust, corrosion and fungus growth with proper maintenance according to user manual. The BNVS is sealed and purged with dry Nitrogen gas to prevent condensation during changes of temperature.

7 YEAR WARRANTY: The PVS-31C-4B is supplied in new condition and excellent quality under standard GSCI specifications and are covered by GSCI standard 7 years of manufacturer's warranty (<https://gsci.net/warranty/>).

COLOR OPTIONS



COYOTE BROWN / FDE
Low Reflective, Matte.



STANDARD BLACK
Low Reflective, Matte.

Binocular Night Vision System

PVS-31C-4B

STANDARD EQUIPMENT



PVS-31C-4B
BNVS System
QTY: 1

WHATS IN THE BOX



User Manual
QTY: 1

Advanced
Helmet Mount
GR8™
QTY: 1



Power
Cable

USB Power
Cable



Adjustment Kit (Allen
Key + Mini-Wrench)
QTY: 1

Neck Cord
QTY: 1

Rubber
Com-
pressible
Eyecups
QTY: 2



Replaceable
Sacrificial Window
QTY: 2



Waterproof &
Protective Manual,
QRC Pouch.



Soft Carrying
Pouch



Waterproof Hard
Carrying Case



Demist Shield
QTY: 2



Tethered protective
cover, daytime filter*
QTY: 2



Cleaning Kit
(3-in-1 Multi-Pen +
Cleaning Cloth)

Additional Items

*Rubber Daytime Training Filters with
Training Hole - Installed on the Device

QTY	ITEM
1	Stow Safety Feature (Integrated)
1	Battery Cover (Installed on the Device)
1	Batteries (AA or CR123)



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