

NIGHT OPERATORS

USER MANUAL

PVS-14 STANDARD

Gen 2+ analog night vision monocular with manual gain, 40 degree field of view, 624 helmet mount and J-arm.

⚙️ ANALOG GEN 2+

△ 40 DEGREE FOV

💧 IP67

REV 1.1



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Read this before you take the unit out. The five rules on the next leaf prevent almost every failure we see. Everything after them is detail.

READ FIRST

Five rules. Four of them protect the tube, and the tube is the unit.

THE FIVE RULES

1. **Never point it at the sun, a laser, or any bright light while powered on.** This burns the tube permanently and is not covered by warranty.
2. **Keep the lens cap closed** whenever you are not looking through it. It protects the glass from scratches, oil and chemicals.
3. **Take the battery out for storage.** A leaking cell destroys the battery compartment.
4. **Do not open the housing.** No user serviceable parts, and it voids your warranty.
5. **Do not touch the glass** with your fingers.

01 SPECIFICATIONS

INTENSIFIER Gen 2+	FIELD OF VIEW 40 degrees	RUNTIME 40 hours
POWER 1x AA	WATER RESISTANCE IP67	WEIGHT Under 265g

HOW THIS DIFFERS FROM THE PRO

The Standard has a 40 degree field of view against the PRO's 50, and an 850nm illuminator against the PRO's 930nm. An 850nm source shows a faint red glow at the emitter that is visible to the naked eye up close, where 930nm does not. In exchange you get roughly 40 hours of runtime instead of 15, and a wider operating temperature range.

01 SPECIFICATIONS

CONTINUED

Configuration	Monocular
Image intensifier	Gen 2+
Field of view	40 degrees, plus or minus 2
Magnification	1x, plus or minus 5 percent
Gain control	Manual
Focus range	250mm to infinity
Diopter adjustment	-6 to +2
Objective lens	f/1.2
Eyeiece focal length	25mm
Power	1x AA, 1.2V to 1.5V
Controls	Off, on, infrared, manual gain
Infrared illuminator	850nm
Safety features	Flip-up auto shutoff
Runtime	Approximately 40 hours
Dimensions	109 x 58 x 74mm
Weight	Under 265g without battery
Operating temperature	-40C to +50C
Water resistance	IP67

02 IN THE BOX

- PVS-14 Standard monocular
- G24 helmet mount
- J-arm mount
- Eyecup
- Lens cloth
- Carrying case

Check this against your order confirmation as soon as the parcel arrives. If anything is missing or damaged in transit, email us straight away and keep the packaging.

NO BATTERY IS INCLUDED

Cells cannot travel with the unit, so the AA is yours to supply. Nothing is missing from your parcel.

03 KNOW YOUR UNIT



COMPONENT IDENTIFICATION

Objective lens ring	Focuses the scene at your working distance
Objective lens cap	Protects the glass. Keep it fitted when not observing
Eyepiece ring	Diopter adjustment for your eyesight
Rotary switch	Off, on and infrared. Also sets manual gain
Gain control knob	Adjusts image brightness
Battery compartment	Takes a single AA cell
Bracket mounting port	Accepts the J-arm

04 FITTING THE BATTERY



BATTERY COMPARTMENT, COVER REMOVED

- 01 Rotate the battery compartment cover anticlockwise and remove it.
- 02 Insert a single AA cell with the **positive terminal facing the cover**.
- 03 Rotate the cover clockwise until it seats fully. That seal is what gives you the IP67 rating.

05 MOUNTING



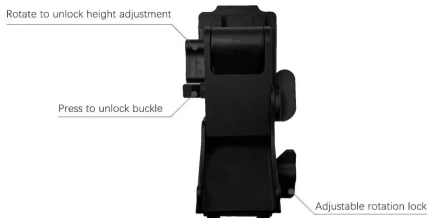
J-ARM INTO THE MOUNT UNTIL IT CLICKS



MOUNTED AND READY

- 01** Set the helmet mount to unlock and push the latch across so the lock core retracts.
- 02** Align the mount with the shroud on your helmet, then push the latch firmly the other way so the lock core seats and grips.
- 03** Align the J-arm with the mount slot and push until you hear a **click**.
- 04** **Pull on the unit to confirm it is locked** before you move.

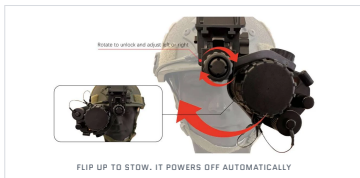
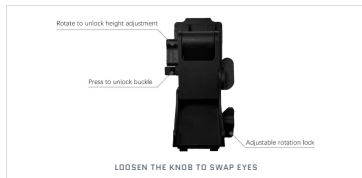
FITTING TO YOUR FACE



HEIGHT, BUCKLE AND ROTATION ADJUSTERS

- **Height.** Rotate the height adjuster to unlock, set the eyepiece height, then rotate back to lock.
- **Fore and aft.** Press the adjuster on both sides at once, slide to the right distance from your eye, then release to lock.
- **Tilt.** Rotate the pitch adjuster for fine angle changes until the image sits square in your vision.

SWAPPING EYES AND FLIPPING UP



Loosen the knob on the L-shaped arm to unlock the eye swap, rotate the unit to the eye you want, then tighten to lock it. To stow the unit temporarily, flip it up onto the helmet. It locks with a click and **powers off automatically**. Flip it back down and it locks in the working position and powers back on.

06 OPERATION



ROTATE THE SWITCH CLOCKWISE TO POWER ON



MANUAL GAIN KNOB



EYEPiece RING SETS THE DIOPTR



PULL THE KNOB OUT, THEN ROTATE, FOR INFRARED

06 OPERATION

CONTINUED

01 Power on. The unit is off by default. Rotate the switch clockwise once.

02 Set the diopter. Pick a target with moderate brightness, then rotate the eyepiece ring until the image is sharpest for your eyesight. Set this once and leave it alone.

03 Focus the objective. Open the lens cap, aim at your target, then rotate the objective ring until the scene is sharp. Refocus whenever your working distance changes.

04 Set gain. Use the lowest setting that gives you a usable picture.

05 Infrared, only if you need it. In complete darkness, **pull the knob out first**, then rotate it clockwise to switch the illuminator on.

06 Power off. Return the switch to off. Remove the battery if you are storing the unit.

 INFRARED GIVES AWAY YOUR POSITION

Use it only in genuine darkness where the unit cannot form an image on its own. Anyone else running night vision will see the beam clearly, and at 850nm there is a faint red glow at the emitter visible even to the naked eye up close.

 THE INDICATOR LIGHT MEANS TWO DIFFERENT THINGS

There is one indicator and it does two jobs. Learn the difference.

INDICATOR	MEANING	WHAT TO DO
Solid	Infrared illuminator is ON	Nothing. Switch it off when you no longer need it.
Flashing	Battery is low	Roughly two hours left. Swap the battery.

07 CARE AND STORAGE

✓ DO

- Clean only when there is visible contamination
- Use optical grade cloth with purified water or isopropyl alcohol
- Handle it as the precision instrument it is
- Store dry, despite the waterproof rating
- Remove the battery for long storage

✗ DO NOT

- Use paper towel or an abrasive brush on the glass
- Wipe the shield with wet lens paper, or while it is wet
- Scratch the lens or leave fingerprints on the optics
- Expose it to dust, strong light or impact in storage
- Disassemble it for any reason

08 TROUBLESHOOTING

SYMPTOM	CHECK	ACTION
Will not power on	Battery direction and charge. Battery cover for damage or wear.	Reinstall or replace the battery. Clean the cover threads. If the cover is damaged, email support.
Battery cap hard to remove	Whether the cover is damaged or cross threaded.	Do not force it. Email support.
Infrared will not come on	Did you pull the knob out before rotating?	Pull out, then rotate. Test in a dark area. If nothing happens, email support.
Poor image quality	Objective and eyepiece focus. Fog or dirt on the lens.	Reset the diopter, then refocus the objective. Clean the lens.
Eyeiece ring will not adjust	Whether the ring is bent or broken.	Do not force it. Email support.
Powers off by itself	Is the unit flipped up?	That is the flip-up shutoff working. Flip it back down.
Indicator flashing	Battery charge.	Low battery. Roughly two hours left.

09 WARRANTY AND SUPPORT



STANDARD WARRANTY

3 months



SUPPORT

info@nightoperators.com



WITH OPERATOR CARE

Up to 12 months



ONLINE

nightoperators.com

Your unit is covered for **3 months from delivery** as standard. If you bought **Operator Care**, coverage extends to **12 months**. We sell direct, so warranty and support come straight from us with no dealer in between. Have your order number ready.



NOT COVERED

- Tube damage from the sun, lasers or other bright light sources while powered on
- Any damage after the housing has been opened
- Corrosion from a battery left in during storage
- Physical damage from drops or crushing

NIGHT OPERATORS

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SUPPORT

info@nightoperators.com



ONLINE

nightoperators.com

Night Operators PVS-14 Standard user manual, revision 1.1. Specifications may change without notice as the product is updated. The current version of this manual is always available at nightoperators.com.
