



HOOKER TACTICAL
Safety & Defense Equipment, Inc.



Kit Parts



Assembled System
shown on a rail mount

User/Installation Manual
for the Ultra-OnX² AN/PVS-14
Rugged Coupler/Adapter Kit

Part Number: MAN-ONX14R KIT

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1.0 Introduction

The Ultra-OnX² AN/PVS-14 Rugged Coupler/Adapter Kit is designed to convert a user owned AN/PVS-14 night vision monocular into a versatile, multi-use, night vision system. With the OnX² Rugged Coupler/Adapter Kit installed on the night vision monocular, a telescopic day scope quickly becomes an effective night scope. With the coupler/adapter installed, the AN/PVS-14 Night Vision Monocular performs all its normal functions.

See Section 8.0 for installation instructions.

1.1 Safety Warnings

When an OnX² adapted night vision monocular is mounted to a firearm telescopic sight, use the rubber eye guard for safety. *Failure to utilize an eye guard to position the user a safe distance from the unit during the rifle recoil event, can cause injury to the user.*

WARNING: Do not use the OnX² adapted night vision system in any way other than from a stationary position for the uses described in this manual. Any other use could result in bodily injury or death (to the user) or destruction of property.

Do not dispose batteries in fire. Do not short circuit batteries.

1.2 Cautions

Refer to the *AN/PVS-14 operator's manual* for your night vision monocular for cautions, warnings, and operational instructions.

The OnX² adapter should be installed by trained personnel. Otherwise, the warranty [for the night vision monocular] may be voided or the night vision monocular damaged.

Remove the battery to store the OnX² adapted night vision monocular.

Battery leakage may cause severe equipment damage.

2.0 System Specifications

See the *AN/PVS-14 operator's manual* for specifications on your night vision monocular.

3.0 Warranty/Repair

If any portion of the OnX² Rugged Coupler/Adapter Kit fails within 1 year of the date of delivery (under normal usage), the non-conforming device shall be promptly repaired or replaced free of charge. See Section 7.2 for additional information.

Please fill out registration information on last of this manual and send a copy to Hooker Tactical Safety and Defense Equipment, Inc. See address on last page of booklet.

4.0 Recommended night use

The following are some of the recommended “low light” uses for the OnX² adapted night vision monocular.

4.1 With a telescopic day sight or spotting scope

The OnX² adapted night vision monocular, with the appropriate scope sleeve, is designed to solidly mount on standard telescopic day sights and standard spotting scopes. With the OnX² rugged coupler/adapter properly mounted, the telescopic day scope becomes an effective night scope.

4.2 As a monocular

The OnX² adapted night vision monocular may be used as a non-magnifying low light or night monocular. See the *AN/PVS-14 night vision monocular operator's manual* for details on use as a monocular. An external light source may be necessary in areas of extreme darkness.

See *AN/PVS-14 operator's manual* for details on other uses.

5.0 How to prepare for use

5.1 Removal from shipping container

When opening the shipping container, make sure no sharp objects penetrate into the container. Remove contents and check them against the list below to ensure receipt of all items.

- 1 package containing OnX² AN/PVS-14 Coupler/Adapter Kit:
 - 1 OnX² AN/PVS-14 rugged coupler/adapter housing, mounting bracket and mounting screw.
 - 1 OnX² AN/PVS-14 lens shroud.
 - 1 OnX² AN/PVS-14 lens focus lever/washer.
 - 1 set of rubber lens covers.
 - 1 rubber eyeguard for AN/PVS-14.
 - 2 scope sleeves.
 - 1 User/Installation Manual for the OnX² Kit.

NOTE: Go to Section 8.0 for instructions on how to install the OnX² Coupler/Adapter to your night vision monocular.

5.2 Installing the scope sleeve

Mount the scope sleeve directly onto the scope. Install it on the scope by sliding it onto the eye piece end (interior lip away from the scope) until its forward motion is stopped by the interior lip of the sleeve. The sleeve should fit snugly onto the scope and may be left in place when the OnX² coupler/adapter is not mounted.

If the sleeve does not fit properly, contact your supplier.

The scope sleeve should not be stored inside the OnX² adapter housing. Storing the sleeve inside the housing will reduce the monocular's field of view by about 20%.

5.3 Installing the battery

See *AN/PVS-14 operator's manual* for battery installation instructions.

5.4 Operating the clasp

Open the clasp to install the OnX² adapter housing over the sleeve on the telescopic day scope or spotting scope. The clasp is opened by lifting the end with your finger until it is in an up position. The clasp is closed by pressing it down until it locks in place close to the side of the OnX² adapter housing.

5.5 Installing an OnX² adapted monocular onto a scope

To install the adapted monocular onto a telescopic day scope or spotting scope, mount the appropriate scope sleeve onto the scope eye piece (as described in Section 5.2 above). Open the clasp, slide the housing onto the eyepiece end of the scope, and close the clasp.

NOTE: For reliable, repeat shot performance on bolt action rifles it is necessary to ensure proper bolt handle clearance by using sufficiently high scope mounting rings.

5.6 Installing the rubber eye guard

To install the rubber eye guard, position it over the end of the eye piece lens [of the night vision monocular] and press into place.

To remove the rubber eye guard, grasp it on the sides, place more pressure on the right (or left) side, and pull gently away from the OnX² adapted monocular until it snaps off the eye piece lens.

5.7 Cleaning lenses

See *AN/PVS-14 operator's manual* for lens cleaning instructions.

5.8 Selecting power switch modes

See *AN/PVS-14 operator's manual* for power switch mode instructions.

Turn unit off when not in use.

6.0 How to operate

The following instructions will assist the user in operating this unit for maximum performance.

6.1 Turning it on

See *AN/PVS-14 operator's manual* for power on instructions.

Caution: Do not operate in bright light.

6.2 Focusing the objective lens

The objective lens is the lens farthest from the user's eye. It can be focused for close up or distance viewing.

When used on a telescopic day sight or spotting scope, the objective lens must be adjusted or focused for close up viewing. The objective lens can be adjusted two ways. First, by simply gripping the objective lens or lens shroud and turning it clockwise or counter-clockwise. Or second, by placing thumb or finger on the adjustment lever mounted between the objective lens and the lens shroud. Move the lever clockwise or counter-clockwise. Adjust to give the clearest image. Adjustment is made while it is clamped to the eye piece end of a rifle sight or spotting scope.

When the OnX² Adapter is removed from a scope and used as a monocular, the objective lens can be focused for the appropriate distance in the same manner as described in the paragraph above. Adjust to give the sharpest image.

6.3 Adjusting the eye piece (diopter) lens

The eye piece or diopter lens is the one closest to the user's eye. Adjustment is made by gripping the lens focus ring and turning it clockwise or counter-clockwise. Adjust to give the sharpest image.

7.0 Trouble shooting tips

The following are trouble-shooting suggestions.

7.1 Viewing image unclear

If the view is unclear, too fuzzy, or too grainy complete the following steps:

1. Adjust objective lens for sharpest focus.
2. If the image is still too fuzzy or grainy, adjust the scope or optical device for reduced magnification and/or shine a flashlight at the target to raise the ambient light level. A flashlight (15,000 - 30,000 candlepower) is recommended for distances out to 100 yards. A brighter light may be required for distances beyond 100 yards. Use of an infrared filter (mounted on the light) is recommended.
3. Change the monocular battery & repeat the steps above.

NOTE: The cross hair image and the scope image should both be sharpest at the same focus setting of the OnX² adapted night vision monocular. If not, remove the OnX² adapter housing and readjust the scope eyepiece for the sharpest focus.

7.2 Inoperative Unit

For an inoperative unit:

1. Check to see that the on-off switch is in the “on” position.
2. Check to see that the batteries are installed correctly. (Reinstall correctly or replace with fresh ones.)
3. Install fresh batteries.
4. If the unit is still inoperative, call the OnX² Customer Service (208-527-3395) or send an email to customerservice@hookertactical.com and advise of problem.

7.3 Loose fit on scope

If the unit is loose on a scope:

1. Check to see that the clasp is completely closed.
2. Check to see that the correct size scope sleeve is being used. If not, replace it with a sleeve of the proper size.
3. Check to see if slippage has occurred. If so, reposition correctly on the scope. The OnX² adapter housing should be straight on the scope -- not installed at an angle.
4. Hint: Check unit position after every 3rd shot to insure recoil-induced slippage has not occurred. Reposition if necessary.

Caution: *Do not discharge the firearm if the OnX² adapter is not firmly fastened to the scope.*

7.4 Replacing battery

See *AN/PVS-14 operator's manual* for battery replacement instructions.

7.5 Cleaning after being immersed in mud or water

See *operator's manual* for cleaning instructions.

Let unit dry thoroughly before using.

7.6 Moisture on lens(es)

During a quick temperature change (especially in a humid climate) a lens may become fogged on its outside. The unit is designed to minimize fogging on the inside of the lens. To clear a fogged lens, take a lens cleaning tissue or soft clean cloth and gently wipe it off. Do not use defogging chemicals on the lens.

8.0 Installing the OnX² Coupler/Adapter

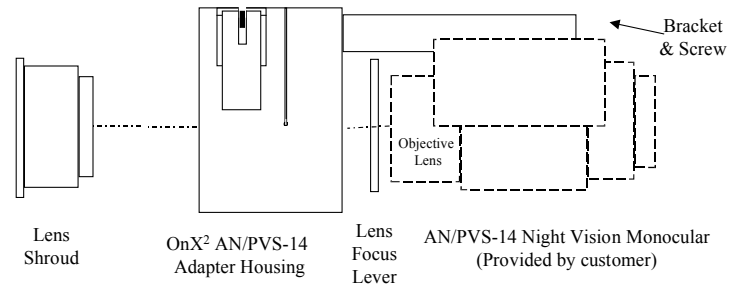


Figure 1 -- Ultra-OnX² AN/PVS-14 Rugged Coupler/Adapter Kit Assembly

Use Figure 1 to assist in the installation of the Ultra-OnX² adapter.

1. Position the AN/PVS-14 monocular so that its objective lens is in line with the large hole in the back of the Ultra-OnX² Adapter Housing. Position so the bracket extending from the housing fits over the "tripod mounting" hole in the housing of the AN/PVS-14.
2. Insert a 1/4-20 flat head screw through the counter-sunk hole of the bracket into the 1/4-20 hole in the housing of the AN/PVS-14.
3. Position the lens focus lever in front of the lens.
4. Place a thin film of adhesive on the threads of the lens shroud.
5. Insert the lens shroud (through the large holes in the housing and the lens focus lever) into the objective lens threads of the AN/PVS-14. Screw it into the lens until it is just starting to tighten.
6. Position the lens focus lever for freedom of movement and operator convenience throughout the focus range. When in desired position, tighten the lens shroud. Do not over tighten.
7. Tighten the 1/4-20 flat head screw using a 5/32 Allen wrench. Center the lens shroud as you tighten the screw.
8. Let adhesive dry thoroughly before using assembled system.

9.0 Service Parts

Call 208-527-3395 for service parts requests or send an email to customerservice@hookertactical.com

Item	Description	Price
1.	Scope Sleeve 170 Part Number: SS170 (Flexible sleeve, with interior lip, designed to slip over a 1.70" (43.2 mm) diameter scope eyepiece.)	Upon Request
2.	Scope Sleeve 155 Part Number: SS155 (Flexible sleeve, with interior lip, designed to slip over a 1.55" (39.4 mm) diameter scope eyepiece.)	Upon Request
3.	Operator's Manual Part Number: MAN-ONX14R KIT (Instructions for operating and attaching the OnX ² Adapter Kit to a night vision monocular.)	Upon Request
4.	Hard Case with Foam Insert Part Number: HCF-ONXKIT (Protective storage and carrying case with foam insert.)	Upon Request
5.	Rubber Eye Guard Part Number: REG3 (Three (3) inch long rubber piece specially designed to provide protection for user)	Upon Request
6.	Special scope sleeve Part Number: To be assigned (Special part to meet customer need)	Upon Request

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Registration Information

Please fill in the information below. Mail a copy to Hooker Tactical Safety and defense, Inc. (address below).

Purchaser: Agency (or name) _____
Address _____
City _____ State ____ Zip _____

Model Number: Ultra-OnX² AN/PVS-14 Rugged Coupler/Adapter Kit

OnX² Kit Serial Number _____

Date Purchased _____

Purchased From: Name _____
Address _____
City _____ State ____ Zip _____

NOTICES:

1. The OnX² AN/PVS-14 Rugged Coupler/Adapter Kit is:

- a) **Made in the USA by:** Hooker Tactical Safety and Defense Equip, Inc.
P.O. Box 190
147 S. Idaho St.
Arco, ID 83213, USA

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