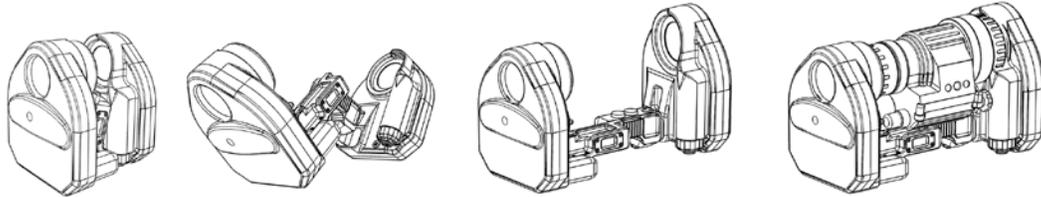
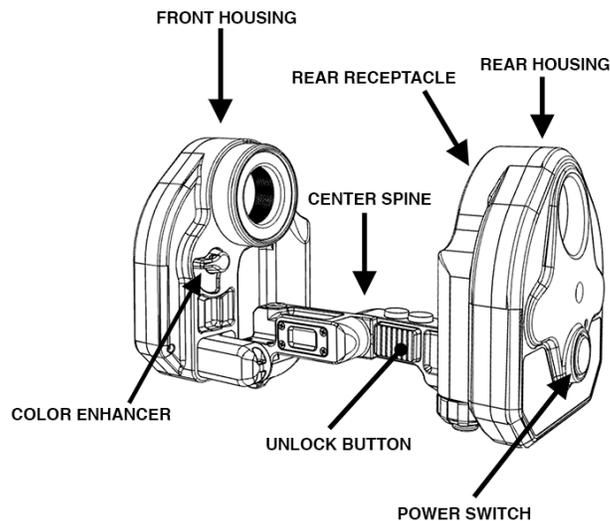


CVA-14 Operator's Manual



Overview:

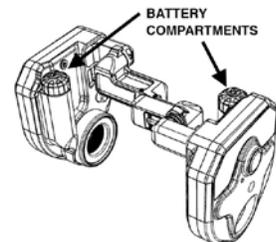
The CVA-14 is designed to fit onto a PVS-14 night vision monocular, hand held or fixed to a helmet mount. Like the PVS-14, the CVA-14 is a precision electro-optical instrument so handle it with care.



Batteries:

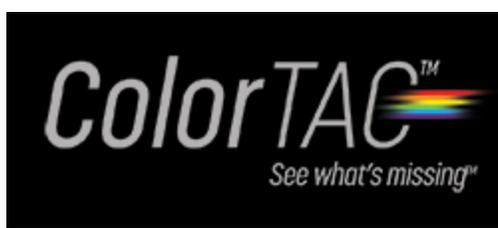
There are two battery compartments, one on the inner face of each housing. The CVA-14 takes two AA Lithium batteries. Standard Alkaline batteries may be used, but battery life will be reduced. The battery compartment covers unscrew to insert the battery. The positive (+) end of the battery is inserted first. Tighten cap snugly after battery insertion.

A red light in the eyepiece flashes every two seconds when the battery life is reduced to 20%.



Warning:

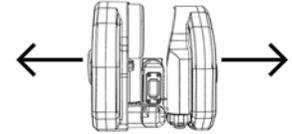
To prevent potential damage to the CVA-14 never mix old and new batteries or Lithium and Alkaline batteries, and choose batteries that meet intrinsically safe standards.



CVA-14 Operation:

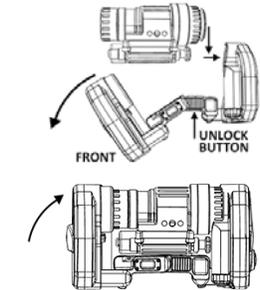
Unfolding the CVA-14:

Grasp the two filter housings and pull apart until the center linkage is flat.



Attaching the CVA-14 to the PVS-14:

To mount the PVS-14 to the CVA-14, press the Unlock Button and rotate the Front Filter Housing slightly downwards. Press the PVS-14's eyepiece into its receptacle on the Rear Filter Housing and swing the Front Filter Housing back so that it captures the PVS-14's objective lens and the Center Spine locks flat. Rotate the PVS-14's battery compartment until it fits snugly against the rubber pads on the top of the Center Spine.

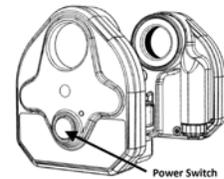


Power Switch:

The Power Switch is located on the outside face of the Rear Housing.

To turn **ON** the CVA-14, press and hold in the Power Switch for two seconds. A green light located to the right of the Power Switch and a red light in the eyepiece will flash three times to indicate that the unit has turned on.

To turn **OFF** the CVA-14, press and hold in the Power Switch for two seconds. A green light located to the right of the Power Switch and a red light in the eyepiece will flash once to indicate that the unit is turning off.



NOTE: To reduce the chance of the CVA-14 being turned on accidentally while not in use, the unit will return to an "off" state if the Power Button is held engaged for more than four seconds.

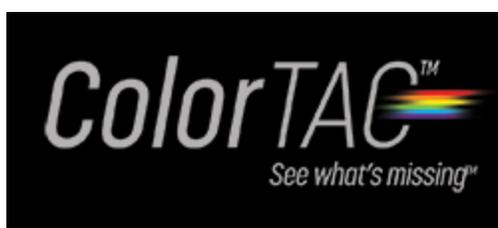
Switching Between Color Mode and Monochrome Mode:

Should light levels fall below the minimum required for color operation the operator can switch the system to standard Monochrome Mode (green or white). This is accomplished by pressing the Power Switch quickly two times. Within two seconds the system will enter Monochrome Mode providing an unaltered image as seen through the PVS-14. To return to Color Mode, press the Power Switch again two times quickly.

When in the Monochrome Mode there are no visual indications that the system is still in the "On" condition. The user must assume that as long as the image is monochrome the unit is still "On" and must be turned off if it is no longer being used.

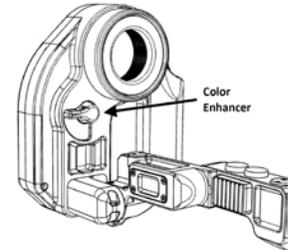
Color Enhancer:

To engage the Color Enhancer, rotate the lever counterclockwise to improve the saturation of colors under certain lighting situations. In normal conditions, rotate the lever clockwise.



Detaching and Folding the CVA-14 for Storage:

Rotate the PVS-14 so that the battery housing disengages from the CVA-14's rubber pads on the Center Spine. Press and hold the Unlock Button as you pull up slightly on the Center Spine and rotate the Front Housing forward. This allows you to disengage and remove the PVS-14 from the CVA-14. Continue lifting the Center Spine and press both housings together until the CVA-14 is fully collapsed.



Tripod Mounting the CVA-14:

The assembled CVA-14 mounted to a PVS-14 can be tripod mounted for long-term observation, photography or other tasks. To do so, rotate the assembly so that the PVS-14 is on the bottom. Use the PVS-14's 1/4-20 threaded mounting holes to attach the tripod.

Precautions:

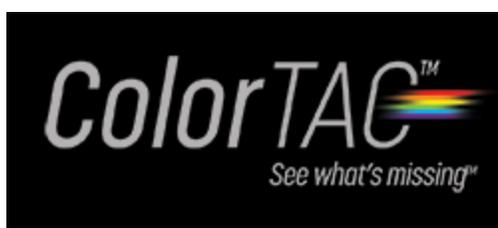
The CVA-14 is a precision electro-optical instrument and must be handled carefully to protect the optical windows. Although the optical windows are hardened glass surfaces, they can be scratched by sand and grit. Fingerprints on the optical windows will degrade image quality. Ensure that all dust and sand is removed from the CVA-14 and its carrying case before securing it for storage.

Cleaning the CVA-14:

The CVA-14's windows are fine optical surfaces and should be cleaned carefully as you would any lens or optical surface. First, blow dust off the windows or remove using a clean, soft cloth (microfiber cloth preferred). Using a microfiber cloth and water, clean the windows and carefully wipe dry before use or storage.

Clean the CVA-14's housing with water if necessary and dry thoroughly with a soft cloth before returning to its protective case. Similarly, should the CVA-14, mounts or accessories become wet, wipe it dry before storage.

Warning: Do not use solvents on your CVA-14. Do not use a strong water spray or high-pressure air.



Specifications:

Power Source:

(2) AA Lithium batteries. Alkaline batteries may be substituted, but this will result in shorter operating times.

Choose batteries that meet intrinsically safe standards.

Operating Temperature:

-22°F to + 104°F (-30°C to + 40°C)

Run Time:

>12 hours in continuous use (with Lithium batteries)

Storage Temperature:

-40°F to +140°F (-40°C to +60°C)

Immersion:

3 ft. (1 meter)

Altitude:

15,000 feet (<4,600 meters)

Warranty:

The CVA-14 is covered by a one (1) year limited warranty. Please see the www.colortacnightvision.com website for details

ITAR Notice:

This instruction manual contains technical data whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). This information must not be transferred to foreign individuals without the proper authorization of the U.S. Government. Export of the commodities described herein is strictly prohibited without a valid export license issued by the U.S. Department of State Office of Defense Trade Controls prescribed in the International Traffic in Arms Regulation (ITAR), Title 22 Code of Federal Regulation, Parts 120-130.

Patents:

The ColorTAC™™ CVA-14 is covered by US Patents 6,614,606 B2, US 7507964 B2, foreign patents and patents pending.

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