AstroScope™ Night Vision
for Canon


Photojournalism/News Gathering


Law Enforcement/Night Training


Government Surveillance

Convert Your Digital SLR Camera or HD Camcorder Into a High-Performance Night Vision System.

The AstroScope is a modular night vision system that can be used to convert Canon dSLR Cameras and HD Camcorders into Night Vision image recording systems. With AstroScope, these camera systems convert dark scenes into bright, high resolution image recordings. In wide use with both commercial and military photographers around the world, AstroScope's battlefield-proven design delivers optimal integration with any Canon camera or camcorder body.

The AstroScope can be configured in different ways. For dSLR cameras, the AstroScope Model 9350EOS-P and 9350EOS-PV are specifically designed to be used with Canon EOS-mount digital cameras and their lenses. These modules mount seamlessly between the camera body and objective lenses using the standard EOS bayonet mount retaining all electronic communication between lens and camera. Lens electronic functions such as image stabilization continue to function with the AstroScope attached. No additional batteries are required in this configuration as the AstroScope is modestly powered by the dSLR host. For use on Canon HD camcorders, the AstroScope Models 9350BRAC & 9350B are designed to attach to the front filter thread of the camcorders and accept a variety of front lenses, either C-mount or EOS.

At the heart of the AstroScope system is a high performance Gen III Central Intensifier Unit (CIU). The CIU is available in two versions, automatic gain or variable gain. The automatic gain versions (9350EOS, 9350BRAC) automatically adjusts the gain to deliver an image having a specific brightness level independent of ambient light level. The variable gain versions (9350EOS-PV,9350B) permit the user to manually adjust the gain from low to high as scene light levels change, allowing the user to achieve the optimum balance of brightness and clarity in the image.


variable gain feature

When you need to get the shot, AstroScope delivers.


Low-light Still Photography


Military Tactical Imaging

SOFRADIR-EC Night Vision Imaging
formerly Electrophysics Night Vision Imaging

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A design that delivers optimum performance in every configuration.

Unlike pocketscope-based night vision setups, AstroScope is specifically designed for image capture configurations. Only AstroScope enables the use of Canon EOS lenses to shoot full frame images at distances beyond 1000 meters! In the dSLR configuration, AstroScope passes all communication signals between the camera body and lens, which ensures features like image stabilization, work for portable shooting.

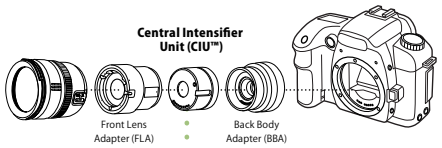
AstroScope's modular design enables the unit to be easily transferred to other camera platforms including Nikon dSLR, and other fixed lens camcorders.

- **Uses Canon EOS lenses**
- **No back focus adjustment on dSLR configuration**
- **No vignetting on most platforms**
- **Installs in less than 10 seconds**
- **Powered directly by dSLR cameras**
- **Wide range of image intensifier performance offerings**

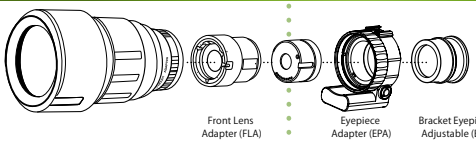
Astroscope Modular Configurations

At the heart of the AstroScope is a Central Intensifier Unit that, with additional components, can be reconfigured as shown below.

Canon SLR Camera

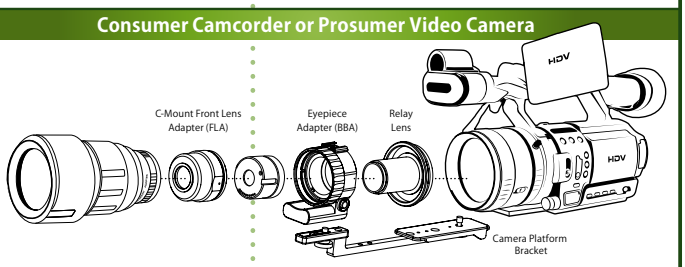


Pocketscope Options

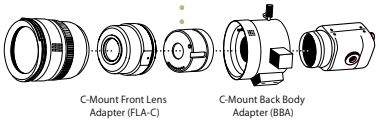


The Pocketscope configuration can be configured with a variety of front lens adapters, such as C-mount or Canon EOS permitting the use of SLR objective lenses in manual mode.

Consumer Camcorder or Prosumer Video Camera



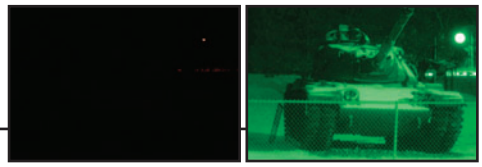
C-Mount CCD Camera



Experience the difference.

See 10 to 12 F-stops more light!

Without AstroScope | **With** AstroScope



BOTH SHOTS WERE TAKEN USING THE SAME CAMERA SETTINGS:
Shutter Speed: 1/40; **No** Flash; **Lens Aperture:** F/5;
Focal Length: 52 mm; **ISO:** 800; **Exposure Comp:** 0

Features	Benefits
• Seamless Electronic Integration	• Maintains existing electronic communications between the dSLR camera and objective lens. All lens functions are retained, including image stabilization.
• Interchangeable Central Intensifier Unit (CIU™)	• Choose from several models offering different levels of low-light performance and take advantage of the opportunity to "swap" a CIU from one AstroScope system configuration to another (for example, use one CIU for both a camcorder and a digital SLR camera night vision setup).
• Custom Relay Optics	• Capture bright, tack-sharp edge-to-edge image detail. The AstroScope system is the highest performance design available for night vision photography.
• Epoxy-Coated Aluminum Chassis	• Designed for use in field environments, the AstroScope system is rugged, compact and versatile.
• Canon Bayonet Mounts	• Use existing high-performance Canon EOS objective lenses.
• Host Interfaced Powered	• Powered directly from the SLR camera. No separate batteries are required.
• User-Friendly Design	• Requires no back focus adjustment or special camera training. Simple setup and operation.

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Ordering Information		
ITEM		**DESCRIPTION**
AstroScope Adapters for Canon SLR & Camcorders		
Model #: 9350EOS-P	Part #: 914550	Fixed gain model features automatic gain control that keeps the output image at a certain brightness. Select from CIU version below.
Model #: 9350EOS-PV	Part #: 915005	Variable gain model features automatic gain control plus includes a manually adjustable maximum output brightness permitting the user to achieve the optimum balance of brightness and clarity in the image. Select from CIU version below.
Model #: 9350EOS-FF	Part #: 914991	Adapter for use with full-format digital cameras and either 9350EOS-P or 9350EOS-PV modules.
Model #: 9350BRAC-XF-100/5	Part #: 915242	Adapter for use on Canon XF100 & XF105, requires C-mount lens and CIU for operation.
Model #: 9350B-XF-100/5V	Part #: 915278	Variable Gain adapter for use on Canon XF100 & XF105, requires C-mount lens and CIU for operation.
Model #: 9350BRAC-XA10	Part #: 915396	Adapter for use on Canon XA-10, requires C-mount lens and CIU for operation.
Model #: 9350B-XA10/V	Part #: 915392	Variable Gain adapter Adapter for use on Canon XA-10, requires C-mount lens and CIU for operation.
Model #: 9350BRAC-43	Part #: 915198	Adapter for use on 43mm filter thread camcorders, requires C-mount lens and CIU for operation.
Model #: 9350B-43V	Part #: 915197	Variable Gain Adapter for use on 43mm filter thread camcorders, requires C-mount lens and CIU for operation.
Central Intensifier Units		
Gen III Aviation Model #: 9350CIU3-A Model #: 9350CIU3-VA	 Part #: 914365 Part#: 914984 (Variable Gain)	Super high-performance grade, third generation image intensifier, specially selected for the most demanding military applications. Leading-edge sensitivity, resolution and contrast with better halo reduction and anti-blooming technology.
Gen III Pinnacle Model #: 9350CIU3-N Model #: 9350CIU3-VN	 Part #: 914248 Part #: 914986 (Variable Gain)	Exceptional grade, third generation image intensifier, specially selected for highly demanding military applications. State-of-the-art sensitivity, resolution and contrast, with built-in technology designed to reduce halos and blooming effects!
Gen III Omni IV Model #: 9350CIU3-IV Model #: 9350CIU3-V-IV	 Part #: 914065 Part #: 914985 (Variable Gain)	Specially selected, third generation image intensifier. Military-grade sensitivity, resolution and contrast.
Gen III Export Model #: 9350CIU3-F-1400 Model #: 9350CIU3-FV-1400 Model #: 9350CIU3-F-1600 Model #: 9350CIU3-FV-1600	 Part #: 915238 Part #: 915234 (Variable Gain) Part #: 914399 Part #: 914982 (Variable Gain)	Military grade, third generation image intensifier meeting figure of merit guidelines for export.
Professional Grade Models (include module and CIU)		
9350EOS-3-PRO and 9350EOS-3V-PRO		Professional grade module and intensifier, Standard and variable gain version
9350BRAC-XF100/5-PRO and 9350B-XF105/5V-PRO		Professional grade module and intensifier , standard and variable gain version, requires C-mount lens
9350BRAC-XA10-PRO and 9350B-XA10/V-PRO		Professional grade module and intensifier, standard and variable gain version, requires C-mount Lens

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Edition: 09-13 rev04