SceneScope® Advance™ RUVIS

Scenescope® Advance™ RUVIS Imager uses intensified UV reflectance instead of fluorescence for the detection of evidence.

With a 60mm lens and an integrated laser pointer, the SceneScope® Advance™ is a compact unit.

The two primary RUVIS applications are untreated prints on most non-porous surfaces, and cyanoacrylate (CA) fumed prints

Reflective Ultra Violet Imaging Systems are an integral part of the crime scene investigator's search for evidence. By enhancing the observation and collection of evidence including latent prints on smooth non-porous surfaces, bites, bruises, blood detection with Bluestar®, and shoe impressions, SceneScope® Advance™ RUVIS provides more sensitivity than traditional methods of enhancement and without any treatment. Print collection can be performed on surfaces such as plastic bags, sticky side of tape, glossy magazine, photographs, linoleum tile, compact disks, credit cards, etc... Cyanoacrylate treatment will further enhance the results of the SceneScope® Advance™.

CA Fumed fingerprint on Coca-Cola can. RUVIS provides superior background rejection.

Detects Latent Prints
SceneScope® Advance™ RUVIS allows the detection of latent prints, prior to treatment. This is possible on surfaces that reflect light very well and do not absorb prints. That is to say surfaces that are smooth and non porous. Untreated sweaty prints show as white reflective ridges on a black background. Untreated oily prints appear as strong, black ridges on a shiny background.

Detects Cyanoacrylate Fumed Prints
As surfaces become more rough or more porous, "superglueing" the print may extend the range of surfaces on which RUVIS will work. Additionally, RUVIS may help avoid over fuming since the SceneScope® Advance™ can see the ridges after only a slight fuming.

Shortwave Ultra Violet Light
RUVIS devices use 254nm UV light but they are not detecting fluorescence. Instead the device looks for the reflections and scatter of the 254nm light off of the fingerprint ridges.

Angle of Light is Critical
By varying the angle of incidence, the direction the light falls onto the surface, you attempt to find an angle that causes only the reflection and scatter of the fingerprint ridges to appear and the reflection off the background to disappear. Ideally, this results in an image where the ridges appear bright and the background appears dark.

Contrary to popular belief, RUVIS does not save time at the crime scene. While it can show whether or not a print has detail, on the proper surfaces, the RUVIS will actually detect many partial or smudged prints. RUVIS does not shorten the time you are at the crime scene, it helps you find more evidence than before.

Other Possible Applications
Bite marks on skin, shoe impressions on tile and other smooth surfaces, detection of explosive residues, detection and enhancement of Bluestar® treated blood stains.

SAFETY FIRST!
All SceneScope® Advance™ RUVIS devices include eye and skin protection devices against UV radiations. All RUVIS devices include lamps that emit high-intensity shortwave ultraviolet. Exposure to these wavelengths of radiation, even reflected or diffuse, can result in serious, and sometimes irreversible, eye and skin injuries. Never aim the shortwave UV lamp at anyone. Never look directly into the shortwave UV lamp.

Each SceneScope® Advance™ comes as a complete kit.

Always wear appropriate eye and skin protection when using ANY RUVIS device.

With the addition of the removable grip and legs, the SceneScope® Advance™ becomes even easier to handle.

Components and Specifications
- UV Quartz lens
- Intensifier unit
- Adjustable eyepiece
- 254nm filter
- 6W/12W 254nm UV rechargeable lamp with swivel head
- UV protection goggles
- UV full face protection with headgear
- Camera adapter
- Carrying case (requires user provided camera/tripod)
- Integrated targeting laser

System is Manufactured Under ISO 9001 Standards.
Intensifier Unit: Typical Resolution 40 line pairs/mm, Gen 2.5, protective circuit from bright source, S20 Photocathode, P43 Phosphor, hand-strap, run-time with CR123 battery 75 hours.
Objective lens: Fused Silica elements, 60mm focal length, Nikon mount, Filter: 254nm with 40nm bandwidth. UV Lamp: 6W/12W switchable – ability to run on both 12V internal rechargeable battery and AC current
Safety Devices: eye and skin UV protection with goggles, full face shield with headgear (gloves and clothing to be provided by users).