

FSIS

FULL SPECTRUM IMAGING SYSTEM



General Atomics Electromagnetic Systems' (GA-EMS) Full Spectrum Imaging System (FSIS) products identify and capture clear, high-resolution images across the UV, visible and IR spectrum. FSIS captures images of biological, chemical, pattern and trace evidence on items previously thought impossible. The innovative Paint-by-Light feature uses patented software to extend imaging capabilities across flat, curved and textured surfaces, eliminating the potential for critical error caused by traditional photo-stitching processes. Easily capture images of evidence such as fingerprints, palm prints, altered documents, body fluids, GSR, footwear, fumed prints, and dye-stained prints. The LatentMaster software (included with each product) allows for easy image enhancement, while preserving the chain of evidence with a complete audit trail and process history.

FULL SPECTRUM IMAGING SYSTEM

All FSIS products are compatible with the Automated Fingerprint Identification System (AFIS) submission and data-management system. They meet and exceed the minimum requirements of 1,000 PPI when capturing an image up to 4.9 in. x 3.3 in. FSIS cameras provide the optimum sensitivity, shutter speed and aperture to capture images of micro evidence up to 3,500 PPI and larger objects such as footprints and tire tracks. The FSIS software allows for easy file import and export for use with image modification software such as Photoshop®.

FSIS LAB WITH BLACK AND WHITE CAMERA (FSIS LAB)

- Surpass traditional forensic imaging systems with the ability to find latent evidence across the spectrum from 254nm to 1100nm
- Capture a high level of detail to eliminate the green, grainy and low-resolution images of RUVIS technology
- Real-time review of high-resolution images without losing clarity from image capture to display

FSIS LAB WITH FULL COLOR CAMERA (FSIS COLOR)

- Broaden the evidence capture capability into full color 24-bit images
- Easily display and compare UV or IR images with the full color image
- Seamlessly transition from shortwave UV to full color

FSIS LAB WITH MOBILE CAPABILITIES (FSIS MOBILE & FSIS BACKPACK)

- In-the-field capture and display of evidence while maintaining the same high resolution and quality of stationary lab systems
- Battery powered for up to 2 hours of operation in remote locations

FSIS COLOR CONVERSION

Upgrade any black and white FSIS camera to the full color display capabilities offered by FSIS Color, by adding the full color camera. The conversion maintains AFIS compatibility, Paint-by-Light image capture, and a fully auditable file storage system.

APPLICATIONS



FINGERPRINTS



DOCUMENTS



BODY FLUIDS



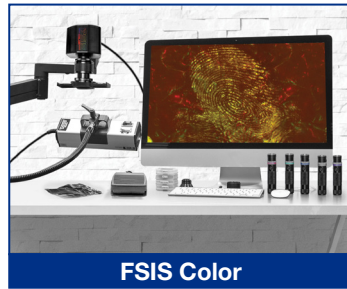
GSR



FOOTWEAR



FSIS Lab



FSIS Color



FSIS Mobile



FSIS Backpack

CORE SPECIFICATIONS

FSIS Lab

- Black and white true 16MP digital FSIS camera (1/4-20 mount) with 1ms to 60 second integration time and up to 3,500 PPI resolution. Includes an articulating camera arm and integrated foot pedal for hands-free image capture.
- Apple iMac all-in-one computer, Intel Quad Core 3.2GHz, 8GB RAM, 1TB hard drive, with a 27 in. and 5120 x 2880 pixel display, wireless mouse and keyboard, running Windows 10 and includes LatentMaster and patented Paint-By-Light curved surface software.
- Lab footprint approx. 24 in. H x 36 in. W x 36 in. D

FSIS Color

- Full-color 24-bit images (48MB file size) with 1ms to 60 second integration time and up to 3,500 PPI resolution. Includes an articulating camera arm and integrated foot pedal for hands-free image capture.
- Apple iMac all-in-one computer, Intel Quad Core 3.2GHz, 8GB RAM, 1TB hard drive, with a 27 in. and 5120 x 2880 pixel display, wireless mouse and keyboard, running Windows 10 and includes LatentMaster and patented Paint-By-Light curved surface software.
- Lab footprint approx. 24 in. H x 36 in. W x 36 in. D

FSIS Mobile & FSIS Backpack

- Black and white true 16MP digital FSIS camera (1/4-20 mount) with 1ms to 60 second integration time and up to 3,500 PPI resolution. Includes a 27 in. column camera stand with extension arm (FSIS Mobile) or a tripod camera stand (FSIS Backpack) and integrated foot pedal for hands-free image capture.
- MacBook Air 13 in. computer, 15 ft. Firewire cable, Thunderbolt to Firewire Adapter, running Windows 10 and includes LatentMaster and patented Paint-By-Light curved surface software.
- FSIS Mobile: Wheeled Pelican case. Approx. 22 in. H x 14 in. W x 9 in. D and 28 lbs
- FSIS Backpack: Pelican case with backpack straps. Approx. 18.5 in. H x 13 in. W x 10 in. D and 24 lbs

FULL SPECTRUM IMAGING SYSTEM

ADDITIONAL SPECIFICATIONS

Additional Features	FSIS Lab	FSIS Color	FSIS Mobile	FSIS Backpack
Compatibility				
AFIS submission and data management	X	X	X	X
Photoshop import and export	X	X	X	X
Filters				
3 position filter slider includes: 254nm UV, 550nm Orange, and 830nm IR filter	X	X	X	X
78mm UV lens with universal filter holder	X	X	X	X
365nm UV bandpass filter	X	X	X	X
445nm Blue bandpass filter	X	X	X	X
695nm IR filter	X	X	X	X
Light Source				
3 watt, 365nm (UV) LED lamp	X	X	X	X
3 watt, 455nm (Blue) LED lamp	X	X	X	X
3 watt, 525nm (Green) LED lamp	X	X	X	X
3 watt, 625nm (Red) LED lamp	X	X	X	X
3 watt, 850nm (IR) LED lamp	X	X	X	X
Shortwave (254nm) UV Light	X	X	X	X
Gear				
UV face shield	X	X		
12VDC & 100-240VAC chargers	X	X	X	X