# FSIS II

## FULL SPECTRUM IMAGING SYSTEM II

General Atomics Electromagnetic Systems' (GA-EMS) Full Spectrum Imaging System II (FSIS II) identifies and captures clear, high-resolution images across the UV, visible and IR spectrum. FSIS II incorporates a powerful color camera and patented software to provide 10 times greater scan and processing speeds to capture full color, high-resolution images of biological, chemical, pattern and trace evidence from curved, textured and flat surfaces. FSIS II shortens the time it takes to scan for and capture evidence imagery, helping get critical evidence processed faster and more efficiently.



**GENERAL ATOMICS**
ELECTROMAGNETICS

# FULL SPECTRUM IMAGING SYSTEM II

FSIS II provides the optimum range of sensitivity, shutter speed and aperture to capture images of evidence such as latent fingerprints, palm prints, altered documents, body fluids, footwear, fumed prints, and dye-stained prints, as well as micro evidence and larger objects such as footprints and tire tracks.

The FSIS Paint-by-Light feature extends imaging capabilities across a broad range of surfaces, eliminating the potential for errors caused by photo-stitching processes. The system's LatentMaster software allows for easy image enhancement while preserving the chain of evidence with a complete audit trail and process history.

FSIS II is compatible with the Automated Fingerprint Identification System (AFIS) submission and data-management system. The system meets and exceeds the minimum requirements of 1,000 PPI when capturing an image up to 5.4 in. x 3.6 in. The FSIS software allows for easy file import and export for use with image modification software such as Photoshop®.

## FSIS II LAB WITH FULL COLOR CAMERA (FSIS II COLOR)

- 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

- 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 II LAB WITH MOBILE CAPABILITIES (FSIS II MOBILE & FSIS II 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 two hours of operation in remote locations

## APPLICATIONS

FINGERPRINTS          DOCUMENTS          BODY FLUIDS          GSR          FOOTWEAR

# FSIS II SYSTEM CONFIGURATIONS

## FSIS II Lab

- FSIS II color camera features: Patented 20MP digital camera with 50mm UV lens able to capture full color 24-bit images (60MB file size). Fast scan frame rate up to 60 F/S. HDR Scan frame rate up to 73 F/S. Large field of view (5.4 in. x 3.6 in.). High resolution up to 4,800 PPI at 254nm. High-resolution and full spectrum sensitivity from 254nm – 1100nm. Real-time display and settings adjustment capabilities. 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. Includes LatentMaster and patented Paint-By-Light curved surfaces software.

- Lab footprint approx. 24 in. H x 36 in. W x 36 in. D


FSIS II Lab
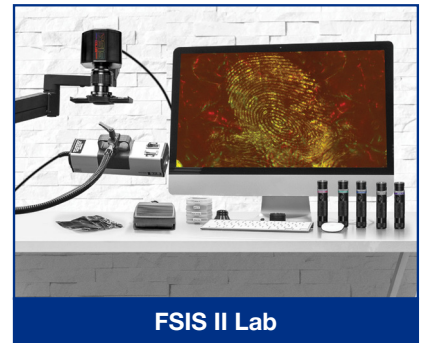
## FSIS Mobile & FSIS Backpack

- FSIS II color camera features: Patented 20MP digital camera with 50mm UV lens able to capture full color 24-bit images (60MB file size). Fast scan frame rate up to 60 F/S. HDR Scan frame rate up to 73 F/S. Large field of view (5.4 in. x 3.6 in.). High resolution up to 4,800 PPI at 254nm. High-resolution and full spectrum sensitivity from 254nm – 1100nm. Real-time display and settings adjustment capabilities. Includes a 27 in. column camera stand with extension arm (FSIS II Mobile) or a tripod camera stand (FSIS Backpack) and integrated foot pedal for hands-free image capture.

- Laptop computer, Intel processor, 8GB RAM, 512GB SSD. High resolution display, wireless mouse, 10 ft. USB cable, running Windows 10. Includes LatentMaster and patented Paint-By-Light curved surfaces software.

- FSIS II Mobile: Wheeled Pelican case. Approx. 22 in. H x 14 in. W x 9 in. D and 28 lbs

- FSIS II Backpack: Pelican case with backpack straps. Approx. 18.5 in. H x 13 in. W x 10 in. D and 24 lbs


FSIS II Mobile


FSIS II Backpack

# FULL SPECTRUM IMAGING SYSTEM II

## ADDITIONAL SPECIFICATIONS

| Additional Features | FSIS II Lab | FSIS II Mobile | FSIS II Backpack |
|---|:---:|:---:|:---:|
| **Compatibility** | | | |
| AFIS submission and data management | X | X | X |
| Photoshop import and export | X | X | X |
| **Filters** | | | |
| 3 position filter slider includes: 254nm UV, 550nm Orange, and 830nm IR filter | X | X | X |
| 50mm UV lens with universal filter holder | X | X | X |
| 365nm UV bandpass filter | X | X | X |
| 445nm Blue bandpass filter | X | X | X |
| 695nm IR filter | X | X | X |
| **Light Source** | | | |
| 3 watt, 365nm (UV) LED lamp | X | X | X |
| 3 watt, 455nm (Blue) LED lamp | X | X | X |
| 3 watt, 525nm (Green) LED lamp | X | X | X |
| 3 watt, 625nm (Red) LED lamp | X | X | X |
| 3 watt, 850nm (IR) LED lamp | X | X | X |
| Shortwave (254nm) UV Light | X | X | X |
| **Gear** | | | |
| UV face shield | X | | |
| 12VDC & 100 - 240VAC chargers | X | X | X |

## FSIS TO FSIS II COLOR CONVERSION

For more information, please contact GA-EMS to determine if your camera/software version is compatible for the conversion upgrade. The conversion maintains AFIS compatibility, Paint-by-Light image capture, and a fully auditable file storage system.