

**HENDERSON COUNTY
BOARD OF COMMISSIONERS**

MEETING DATE: July 16, 2025

SUBJECT: Sole Source of Crime-Lite Auto Kit

PRESENTER: Lowell Griffin, Sheriff

ATTACHMENTS: Vendor Proposal
Sole Source Letter from Vendor
N.C.G.S. 143-129 (e)(6) & 2 CFR 200.320 (C) (2)

SUMMARY OF REQUEST:

The Board is requested to approve the attached proposal and authorize staff to proceed with the procurement of the crime-lite auto kit via the sole source exceptions as allowed under N.C.G.S 143-129 (e)(6) and 2 CFR 200.320 (C) (2). As a sole source contract with County government, approval of this agreement by the Board of Commissioners is required.

The sole proposal was received from Foster and Freeman for a total pre-tax price of \$79,827.07. Foster and Freeman is the sole manufacturer of the Crime-Lite Auto with the Discover desktop lab stand. The ability to handle cylindrical evidence and make 2D and further enhance the photos taken and export them to media that is directly comparable for AFIS. Furthermore, the range of environments, ease of use and the responsiveness of the vendor to answer questions, provide training and locate local users for the crime lab to link up with and test the equipment on simulated evidence allowed me to verify its function and use. There is no other vendor of the Foster and Freeman Crime-Lite Auto as their only distribution center in the US is the one we have been in contact with and thus is the sole source provider of this equipment and technology.

The purchase of the Foster and Freeman Crime-Lite Auto Kit is funded with the Department of Justice Byrne Discretionary Community Project Grant. The current available funds remaining for this grant are \$196,128.

BOARD ACTION REQUESTED:

The Board is requested to accept the sole proposal from Foster and Freeman and authorize Henderson County staff to proceed with the purchase of the crime-lite auto kit in the amount of \$79,827.07 using the sole source exceptions as allowed under N.C.G.S 143-129 (e)(6) and 2 CFR 200.320 (c) (2).

Suggested Motion:

I move the Henderson County Board of Commissioners to accept the sole proposal from Foster and Freeman and authorize Henderson County staff to proceed with the purchase of the crime-lite auto kit in the amount of \$79,827.07 using the sole source exception as allowed under N.C.G.S 143-129 (e)(6) and 2 CFR 200.320 (c) (2).

Your Reference: RFQ - DISCOVER PRO W AUTO KIT

Our Reference: C101794

Quote Reference: Q219893

Date: November 27, 2024

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Henderson County Sheriff's Office
100 N. Grove St.
Hendersonville
NC 28792
USA

Attention of Kelly Oliver

QUOTATION Q219893 - FOR THE SUPPLY OF:

LINE	PRODUCT DESCRIPTION	QTY	UNIT PRICE	SUB TOTAL
1	DISCOVER PRO PLUS SOC INC. CRIME-LITE AUTO KIT, COAX & OBLIQ (DISCOVER/SYS/CSU/SOC-120V)	1	76,052.07	76,052.07

DISCOVER PRO

(DISCOVER/RIG/CSU) DISCOVER PRO gantry system, with x, y, z, manoeuvrability and quick-dock port for Crime-lite AUTO. Supplied with Coaxial Illumination Module, Diffuse Panel Light, Oblique Light Module, Light Shroud (bellows) and evidence turntable. External 27" HD display works in unison with Crime-lite AUTO touch screen interface and wireless keyboard and mouse. 2TB external hard drive is also supplied with this system. Additional modules supplied with the DISCOVER PRO include: Cylindrical Surface Unwrapper, Polarised Light Tunnel, Digital Caliper, Foot Pedal Kit and Polariser for Oblique Light Module (fine-control thumbwheel adjustment, allowing light reaching the camera to be polarised as required. Magnetic polariser and diffuser attach onto the Oblique light Module to polarise and/or diffuse the white light output, whilst also facilitating cross-polarisation imaging).

- DISCOVER dimensions: (H) 600mm x (W) 520mm x (D) 752mm
- DISCOVER weight: 44kg
- DISCOVER gantry head-unit range of movement:
 - X-Axis – 245mm
 - Y-Axis – 190mm
 - Z-Axis – 310mm
- 'Press-to-Position' motion system allows the head unit to be located exactly and automatically secured in place
- 360° rotational platform (250mm diameter) for adjustable evidence viewing, minimising direct handling of evidence
- Durable, easy to wipe clean surface construction facilitates simple laboratory clean-down with typical decontamination solution
- Integrated and modular storage provision for all accessory modules
- Integrated sliding platform, with image aligning location feature, for mounting the Cylindrical Surface Unwrapper (optional)

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- 3 x USB 3.0 ports (2 front, 1 rear) for data transfer
- 3 x USB 2.0 ports (rear) for data transfer
- DisplayPort output
- Laboratory dust cover
- 27" HD Monitor
- 2m DisplayPort monitor cable
- Wireless mouse and keyboard
- Power Supply Input Voltage: 90Vac min, 100-240Vac nominal, 264Vac Maximum
- Input Frequency: 47-63Hz (50-60 nominal)
- Conforms to EN62471:2008 and EN61010-1:2010 standards

Oblique Lighting Module (OLM):

- Tethered, switchable, dual-wavelength LED module
- Allows infinite positioning of light around evidence
- Oblique beam pattern for efficient light scattering
- 3 x white LEDs (400-700nm)
- 4 x UVA LEDs (365nm peak)

Diffuse Panel Lighting Module (DPL):

- Slide-in module provides extended diffuse white (400-700nm) or IR (800-900nm) illumination
- 40 x 5700K white (400-700nm) LEDs
- 42 x IR (850nm peak) LEDs

Coaxial Illumination Module (CIM):

- Slide-in module provides coaxial (episcopic) white (400-700nm) illumination
- 40 x 5700K white (400-700nm) LEDs
- Spot and flood illumination modes

Ambient Light Shroud (Bellows):

- Slide-in module for blocking ambient light when capturing images using Crime-lite AUTO ring light
- Module also serves to block light output from the DISCOVER head-unit from reaching the end-user
- Collapsible construction with non-reflective, wipe-clean surface

CSU

The Cylindrical Surface Unwrapper allows cylindrical evidence types to be securely positioned and their external surface photographed to provide a 2D image of the unwrapped cylinder:

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- For generating a 2D image from a 3D cylindrical surface.
Examples of items are bullets, bullets casings and cartridges, pens/pencils, small screw/torx drivers, syringes etc.

- Max. Dimensions (mm): 85 x 330 x 110 (W x L x H)
- Internal and external clamping jaws with locking feature.
- clamping diameter Range: min Ø15- Ø55mm internal diameter, max Ø45mm external diameter
- reversible tailstock alignment guide
- max length of object as standard: 250mm (guide removeable for longer objects)
- 12V Power input
- USB-3 Interface
- Compatible with DISCOVER, DCS-5 and Crime-lite Imager

PLT

The CSU is complimented by the dual wavelength (white and NIR) Polarised Light Tunnel, that provides even illumination across the evidence:

- 'Intelligent' slot-in, dual-wavelength lighting module
- Adjustable imaging aperture to cater for cylindrical items of varying diameters
- Polarised white (400-700nm) or IR (800-900nm) illumination modes
- 8 x 5000K high-intensity white LEDs
- 8 x 850nm high-intensity IR LEDs

DIGITAL CALIPER

High precision digital vernier caliper to measure the diameter of cylindrical evidence and seamlessly input the value into the DISCOVER software.:

- Maximum measurement diameter: 150mm
- Includes cable to connect to DISCOVER

POLARISER MODULE FOR OLM

A slide-in polariser, with fine-control thumbwheel adjustment, allowing light reaching the camera to be polarised as required. Magnetic polariser and diffuser attach onto the Oblique light Module to polarise and/or diffuse the white light output, whilst also facilitating cross-polarisation imaging.

- 'Intelligent' slot-in module
- 360° rotatable polariser
- Magnetic polariser attachment for OLM to enable cross-polarisation

Testing

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- Electrical Safety Testing - (EST) EN 61010-1 :2010 - Safety requirements for electrical equipment for measurement, control, and laboratory use.
- Electromagnetic (EMC) - EN 61326-1 :2021 - Electrical equipment for measurement, control and laboratory use - EMC requirements.
- Electromagnetic (EMC) - FCC 47 CFR 15B - Radio Frequency Devices
- Artificial Optical Radiation (AOR) - EN 62471:2008 - Photobiological safety of lamps and lamp systems
- ROHS - EN 63000:2018 - Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
- Low Temperature Storage - BS EN 60068-2-1:2007
- High Temperature Storage - BS EN 60068-2-2:2007
- Temperature Change - BS EN 60068-2-14:2009
- Cyclic Humidity - BS EN 60068-2-30:2005
- Vibration and Shock Test Sequence - BS EN 60068-2-64:2008 & BS EN 60068-2-27:2009
- Freefall Drop - BS EN 60068-2-31:2008

CRIME-LITE AUTO KIT 120V CHARGER (QCL/AUTO/KIT120V)

Comprising:

CRIME-LITE AUTO

(QCL/AUTO)

All-in-one forensic evidence imaging system for CSI and laboratory use

CAMERA AND LENSES

HIGH SENSITIVITY COLOUR/IR CAMERA

- Precision 20.1MP image capture (5456x3632px)
- Sensitive from 350 to 1000nm
- HDMI Live video output
- Autofocus 30mm f/3.5 macro lens
- Shutter speed/exposure time up to 30 seconds

Selectable advanced camera controls

- Exposure control
- Auto and Fine Manual focus modes
- White balance

ILLUMINATION AND FILTRATION

HIGH INTENSITY LED ILLUMINATION RING

- Wavelengths: UV 365nm, Violet 410nm, Blue 445nm, Blue Green 475nm, Green 520nm, Orange 590nm, Red 640nm
- 4x LED per wavelength
- Combine LEDs to provide up to 55 wavelength combinations

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- Brightness control function

2X WIDE-ANGLE LED ILLUMINATION ARMS

- Wavelengths: UV 365nm, White, IR 860nm
- 2x UV LED, 1x White LED, 1x IR LED per arm

MOTORISED FILTER WHEEL

- Motorised housing with 9-position filter wheel

FLUORESCENCE IMAGING FILTERS

- Longpass filters at: 420nm, 455nm, 495nm, 550nm, 590nm, and 780nm
- Bandpass filters at: 415nm, 530nm and UV 315-380nm

INTERFACE

TOUCHSCREEN DISPLAY

- Integrated 7" multi-touch IPS TFT display (1024x600)
- HDMI live video output
- Micro SD input, USB and Micro-USB connectivity
- Ambient light sensor with auto screen brightness
- WiFi and Bluetooth connectivity

INTERNAL PROCESSOR

- Fully-integrated processor
- Image capture (BMP, TIFF, PNG, JPG) to SD Card
- Video capture (AVI) 1920x1080 to SD Card
- Real time clock for image capture time-stamping

PHYSICAL AND ELECTRICAL

SYSTEM DIMENSIONS

- H 126mm x W 207mm x D 159mm (excluding battery)
- Weight (when fitted with 2Ah battery) 1.75kg (approx.)
- 1/4-20 UNC tripod mounting thread

ELECTRICAL

- Designed for use with 2Ah or 4Ah Li-Ion removable battery
- Up to 2-hours battery runtime
- 12Vdc power input

ACCESSORIES

- Magnetic Lens cap
- 2m Premium HDMI Lead
- UV safety glasses
- Micro fibre cloth
- Evidence scale stickers
- 128GB MICRO SD CARD SDHC/SDXC USH-I CLASS 10

SYSTEM INTERFACE

Crime-lite AUTO functions are carried out via an 'App' style interface using the system's integrated 7" multi-touch display.

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OPERATING FEATURES

- Live video search and capture (AVI)
- High-resolution capture of still images (BMP, TIFF, PNG, JPG)
- Complete control of all camera settings including: Exposure, white balance, focus, shooting mode (single-shot or continuous),
- Complete control of all illumination settings including: Select single or multiple LED combinations, brightness adjust.
- Complete control of all filtration settings including: Manual or semi-automated 'intelligent' filter selection
- Pull-out image gallery of all recent work allowing comparison with current and previous images
- Save and Recall images complete with all examination settings
- Timestamp captured video and images
- Image hashing
- Option to export images and data to external USB
- Option to connect secondary viewing monitor via HDMI

PRODUCT VERIFICATION LIBRARY (PVL) 1 YEAR SUBSCRIPTION

- One-year free subscription to the foster+freeman Product Verification Library (PVL)
- Two-factor authentication for enhanced security
- Compatible with past and previous version of Chrome, Firefox, Edge, Internet Explorer, and Safari
- Over 18,000 high resolution images of body fluid stains on representative fabric types
- Over 300 high resolution sample overview (entirety) images
- 16 different garment types utilised
- 10 different garment colours of each garment type represented
- 6 different body fluids deposited (blood, saliva, semen, sweat, urine, vaginal material)
- Unique icon driven interface
- All samples and datasets compiled using Human Tissue Authority (HTA) approved body fluids
- All images captured utilising the CL-AUTO
- Multi-spectral examination of all samples recorded (UVA-NIR)
- Results analysed by forensically trained personnel to distinguish stains 'of value'
- Basic image processing utilised to represent casework workflow (greyscale and invert)
- Product Verification Library access via unique login (one user login per Crime-lite AUTO device)
- Dataset(s) can be scrutinised via simple user interface
- Results from the dataset(s) facilitate substantiated decision making at the crime scene and the laboratory
- Product Verification Library enables use of the Crime-lite AUTO to be verified by science

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- Quantitative conclusions from the Ground Truth Data allow the generation of pre-sets that are scientifically valid
- Product Verification Library generated pre-sets are integrated within the Crime-lite AUTO
- Pre-sets enable the simple, efficient, and effective use of Crime-lite AUTO for the search, detection, and imaging of bodily fluids at the crime scene and in the laboratory.

LED Safety: Crime-lite AUTO is provisionally classified to European safety standard risk group 2 (IEC/EN 62471:2008)

CRIME-LITE AUTO RECHARGEABLE 2Ah BATTERY
(Quantity x 2.0)

(QCL/AUTO/ACC/1)

- 10.8 V 2Ah Lithium Ion battery
- High capacity
- Individual cell monitoring
- Battery protection circuit
- Battery fuel gauge (4-stage LEDs)

CRIME-LITE AUTO RECHARGEABLE 4Ah BATTERY

(QCL/AUTO/ACC/2)

- 10.8 V 4Ah Lithium Ion battery
- High capacity
- Individual cell monitoring
- Battery protection circuit
- Battery fuel gauge (4-stage LEDs)

CRIME-LITE AUTO CARRY CASE

(QCL/AUTO/ACC/4)

- machined foam cut-outs to accommodate Crime-lite AUTO plus batteries and accessories
- rugged, waterproof and shock resistant
- dimensions 430X260X235mm
- weight 2.7kg

CRIME-LITE AUTO SHOULDER/NECK STRAP 257-187-00

(QCL/AUTO/ACC/5)

- Adjustable shoulder/neck strap

CRIME-LITE AUTO HIGH SPEED MICRO SD CARD
READER

(QCL/AUTO/ACC/6)- Micro SD card Reader

CRIME-LITE AUTO HIGH SPEED USB STICK

(QCL/AUTO/ACC/7)- High capacity USB stick with rapid read/write performance

CRIME-LITE AUTO MAINS ADAPTOR

(QCL/AUTO/ACC/8)- Operate the Crime-Lite Auto via AC mains power

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CRIME-LITE AUTO BATTERY CHARGER

(QCL/AUTO/ACC/3120V)

- Rapid charging of Crime-lite auto Li-Ion batteries
- Charge status display

L-SHAPE FORENSIC SCALE RULE (ASSY DWG 035-106-AS-01)

(DCS/RULE)- L Shaped Forensic Rule

PELI CASE ADDRESS LABEL

(035-102-AW-01)

CRIME-LITE AUTO OBLIQUE LIGHTING RING ACCESSORY

(QCL/AUTO/ACC/9)- Oblique ring light accessory for use with CRIME-LITE AUTO

- 5700K White OR UV 365nm (Selectable – one at a time)
- 12 LEDs per wavelength
- Intensity control
- Lighting direction control – Quadrant selection
- Quadrant, wavelength and brightness controls appear on CRIME-LITE AUTO screen when connected.

CRIME-LITE AUTO COAX LIGHTING ACCESSORY

(QCL/AUTO/ACC/10)- Clip-on accessory module for Crime-lite Auto

- 5700K diffuse white coaxial light
- On-screen 'on-axis' and 'off-axis' illumination mode control (0-9)
- On-screen illumination intensity control
- On-screen focus adjustment
- Powered via USB connection to Crime-lite AUTO

2	PRODUCT TRAINING	1	3,775.00	3,775.00
	1.5-day site visit by Foster & Freeman Applications Specialist. Includes unpacking and setup of equipment, followed by comprehensive operator training and optional testing. Training will cover both theory and practical applications, using realistic samples and scenarios. Equipment safety and maintenance will also be covered. Training and testing certificates provided. Costs are based on a single visit and include associated expenses for the Applications Specialist.			

FOSTER+FREEMAN USA INC.
20145 ASHBROOK PLACE #190
ASHBURN, VA 20147

T: 888 445 5048
F: 888 445 5049

usoffice@fosterfreeman.com

Federal Tax ID No. 56-2316854
GST/HST No. 81939 6300 RT0001

www.fosterfreeman.com

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TOTAL PRICE	USD		79,827.07
TOTAL TAX	USD	@ 6.75%	5,388.33
TOTAL VALUE	USD		85,215.40

DESPATCH PERIOD:

8-10 working weeks from receipt of order, subject to terms of payment details below. **Please note** despatch times are estimates and will be confirmed at time of order acknowledgement.

TERMS OF DELIVERY:

This price covers delivery including customs clearance, duties and local delivery, and includes local sales tax.

TERMS OF PAYMENT:

Nett 30 Days from date of invoice. Please note that a surcharge of 3% will apply to all credit card payments.

BANK DETAILS:

United Bank, McLean, VA. Routing No 056004445, Foster & Freeman USA Inc., Account No. 70061289

WARRANTY:

24 months from date of installation

VALIDITY UNTIL:

February 27, 2025

SIGNED:

Alexis Dodson

Foster & Freeman Ltd. terms and conditions of sale apply.

20145 Ashbrook Place #190
Ashburn, VA 20147
Tel: 888 445 5048
Fax: 888 445 5049
www.fosterfreeman.com

December 6, 2024

Henderson County Sheriff's Office
100 N. Grove Street
Hendersonville, NC 28792
ATTN: Kelly Oliver

Re. Sole Source justification for DISCOVER Imaging System

I am pleased to confirm that the DISCOVER Imaging System is manufactured by and only available from Foster & Freeman.

The DISCOVER system operates as a docking station for the Crime-lite AUTO and offers a unique combination of capabilities:

- Integrates the Crime-lite AUTO camera with full-spectrum capabilities
- Combines the Crime-lite AUTO with a modular laboratory docking workstation
- High-intensity LED illumination from ultraviolet to infrared
- Gantry system with x-y-z axis movement
- Utilizes camera and lighting of Crime-lite AUTO
- Included lighting options to perform visible, fluorescent, contrast, longwave ultraviolet (365nm), and infrared examinations
- External lighting options such as the diffuse panel light, coaxial illumination box, and oblique light module
- Software interface to an external monitor
- Multi-modal data transfer via USB and Micro-SD
- Optional Cylindrical Surface Unwrapper and Polarized Light Tunnel accessory

Please let me know if there's anything else I can help with.

Yours sincerely,



Alexis Dodson
Technical Sales Specialist

TM Crime-lite is a registered trademark of Foster & Freeman.

- (6) Purchases of apparatus, supplies, materials, or equipment when: (i) performance or price competition for a product are not available; (ii) a needed product is available from only one source of supply; or (iii) standardization or compatibility is the overriding consideration. Notwithstanding any other provision of this section, the governing board of a political subdivision of the State shall approve the purchases listed in the preceding sentence prior to the award of the contract.

In the case of purchases by hospitals, in addition to the other exceptions in this subsection, the provisions of this Article shall not apply when: (i) a particular medical item or prosthetic appliance is needed; (ii) a particular product is ordered by an attending physician for his patients; (iii) additional products are needed to complete an ongoing job or task; (iv) products are purchased for "over-the-counter" resale; (v) a particular product is needed or desired for experimental, developmental, or research work; or (vi) equipment is already installed, connected, and in service under a lease or other agreement and the governing body of the hospital determines that the equipment should be purchased. The governing body of a hospital shall keep a record of all purchases made pursuant to this subdivision. These records are subject to public inspection.

(c) *Noncompetitive procurement.* There are specific circumstances in which noncompetitive procurement can be used. Noncompetitive procurement can only be awarded if one or more of the following circumstances apply:

- (1) The acquisition of property or services, the aggregate dollar amount of which does not exceed the micro-purchase threshold (see paragraph (a)(1) of this section);
- (2) The item is available only from a single source;
- (3) The public exigency or emergency for the requirement will not permit a delay resulting from publicizing a competitive solicitation;
- (4) The Federal awarding agency or pass-through entity expressly authorizes a noncompetitive procurement in response to a written request from the non-Federal entity; or
- (5) After solicitation of a number of sources, competition is determined inadequate