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Crime-lite
ML PRO

RAPID EVIDENCE SCREENING

Detect, Examine & Mark-Up Traces of Evidence

Crime-lite ML PRO

The Crime-lite ML PRO is the first in a new generation of evidence screening tools built to meet the demands of busy forensic laboratories tasked with processing large quantities of evidence.

With fully-integrated UV-Vis-IR illumination and an 'intelligent optics' imaging system, the ML PRO can be used to mark-up evidence, detecting the presence of bodily fluids and locating minute fragments of trace evidence.

Examinations are conducted using the system's 10" touch-screen display and can be displayed in high-resolution via an attached 32" monitor. Pre-set examinations and automatic filter selection make the system quick and easy to use.
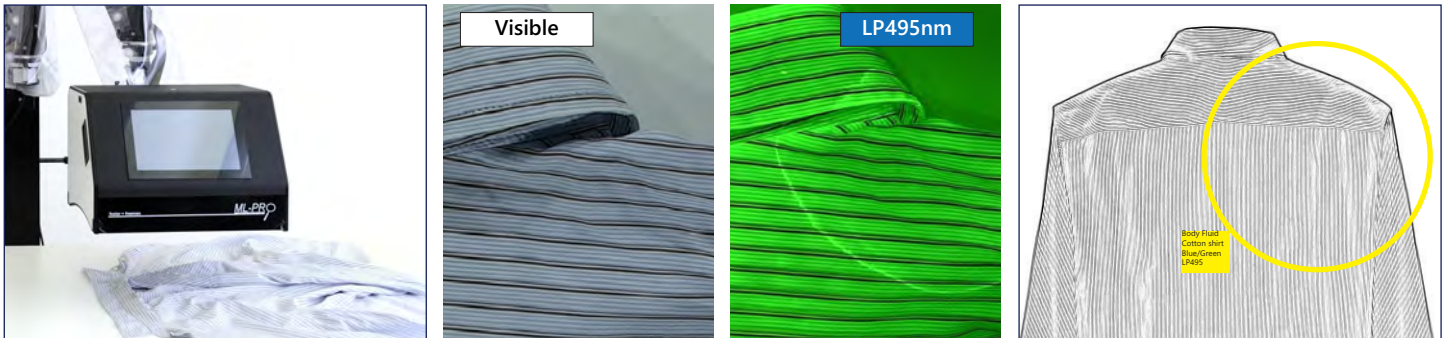
RAPID EVIDENCE SCREENING

✓ Semen
✓ Blood
✓ Saliva
✓ Vaginal Fluids

Blood is visualised on dark material using IR 780nm illumination. The material 'drops out' while the blood absorbs the IR

Body Fluid is visualised on a cotton shirt under Blue 495nm illumination. A line drawing is generated and annotated

Search & Detect

Examine items under UV, Visible and Infrared light sources to locate the presence of evidence.

Easily manoeuvre the ML PRO over evidence performing one-click automated searches or using manual controls to select light source and filter combinations.

Capture & Enhance

Record live video and high-quality still images using a Vis/IR sensitive camera with 'intelligent optics'.

Zoom-in and apply basic image enhancements, including exposure control and image invert, to detect evidence that would have otherwise gone unnoticed.

Annotate & Report

Identify areas of interest and mark-up digital images of evidence using text and shape annotations.

Produce court-ready reports complete with chain-of-custody information, contextual images, side-by-side comparisons, and software-generated line drawings.

Touchscreen Interface - No PC Required
Simply controlled via a 10" LCD display

UV/Vis/IR Flood, Side and Spot LEDs
Powerful illumination across the spectral range

'Intelligent Optics' Vis/IR Camera
Auto or manual control of filter selection

Optional 32" Monitor
A large secondary display can be mounted alongside ML PRO

Wall or Trolley Mounted
'Weightless' low-friction arm makes it easy to manoeuvre the ML PRO over evidence

Fully-integrated hardware

The ML PRO includes all hardware required for the screening, detection and digital mark-up of evidence.

Hardware features include:

- High-resolution UV/Vis/IR camera with zoom lens
- Flood, side and spot LED light sources
- Motorised fluorescence imaging filter wheel
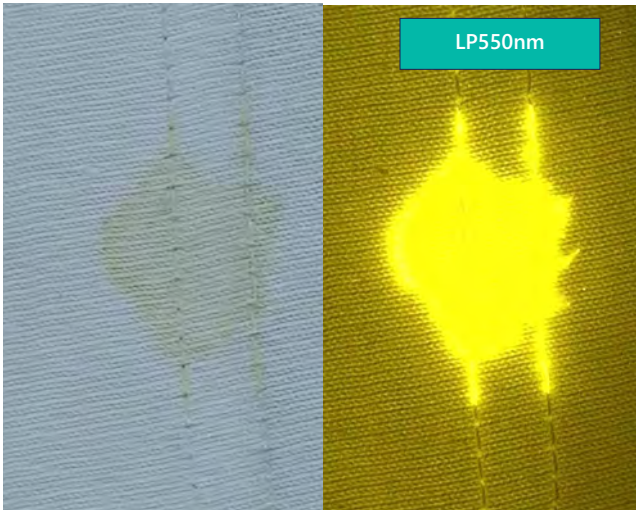- 10" LCD display with internal processor
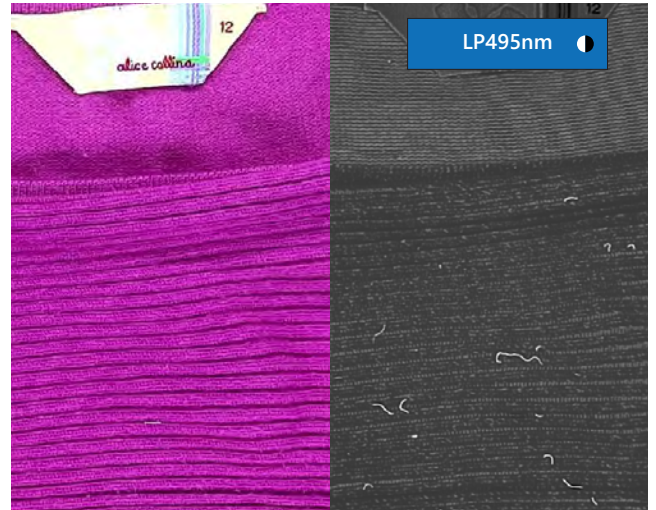- No PC required

'App-style' interface

Operated via the integral touchscreen, an 'app-driven' interface simplifies the evidence screening process.
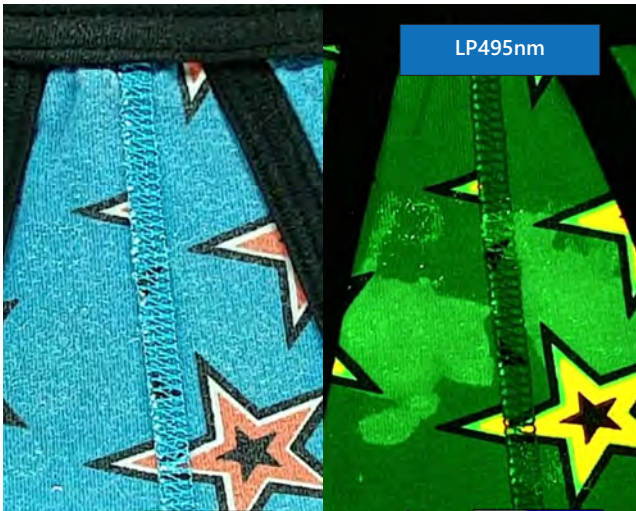
Software features include:

- Manual or semi-automated operation
- Choice of pre-programmed routines
- Search by evidence-type or illumination waveband
- Intelligent filter selection
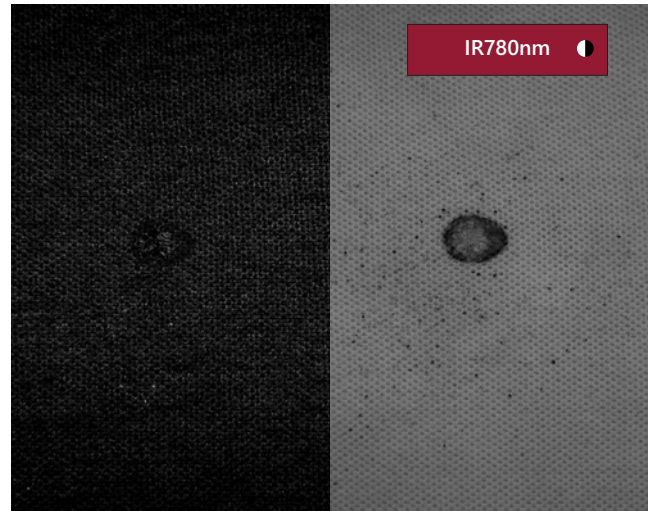- Image comparison and enhancement tools

Body Fluid on white cotton
visualised using Blue/Green illumination

Fibres on colourful knitwear
visualised using Blue illumination and converted to grayscale

Blood on black fabric
visualised using Infrared illumination

GSR on black fabric
visualised using Infrared illumination

Serology

A non-contact, chemical-free screening solution, the ML PRO includes illumination options to detect all types of body fluid.

Fluorescence examinations
✓ Semen, sweat, urine, vaginal fluid

Infrared imaging
✓ Blood on dark backgrounds

Trace Evidence

High-intensity illumination, used in combination with zoom magnification, can reveal minute fragments of evidence.

Fluorescence examinations
✓ GSR, fibres, bone, tooth and hair

Contrast examinations
✓ Glass fragments, soil and pollen

Post-Mortem

Deploy multi-spectral forensic imaging technology in the morgue to reveal deep-tissue contusions.

Fluorescence examinations
✓ Bruises, bites and puncture wounds

Infrared imaging
✓ Tattoos on charred skin

System Specifications

System Hardware

Camera	High sensitivity colour/IR camera Autofocus zoom lens
Illumination	**Flood** UV, Violet, Blue, Blue/Green, Green, Red
	Side UV, White, IR
	Spot UV, Violet, Blue, Blue/Green, Green, Red
Interface	10.1" multi-touch LCD interface Internal processor (no PC required)

Optional Accessories

Crime-lite ML PRO Wheeled Trolley *(pictured)*   QCL/MLPRO/TROLLEY
- Easily manoeuvre the Crime-lite ML PRO around the laboratory
- Heavy-duty wheeled trolley with lockable castors
- Includes Crime-lite ML PRO articulated arm and monitor mount

Wall-Mounted Articulated Arm QCL/MLPRO/ARM
- 'Weightless' manoeuvre of Crime-lite ML Pro
- 180° range of motion with 1.6M max. reach

Wall-Mounted Monitor Arm QCL/MLPRO/MONARM
- Mount a 32" monitor to the Wall-Mounted Articulated Arm

32" Monitor QCL/MLPRO/MON32
- Secondary 32" UHD Monitor (3840x2160)

Wireless Mouse & Keyboard QCL/MLPRO/KM
- For non-touchscreen operation of Crime-lite ML PRO

Crime-lite MLPro with 32" secondary monitor mounted on Wheeled Trolley

System Software
Two modes of operation for semi-automated (basic) or manual (expert) control of examinations:

BASIC semi-automated examination mode

- 'App' style icon-based user interface
- Pre-set examinations for Body Fluids (general), Semen, Urine, and Blood searches
- One-click Full AutoScan examines evidence under multiple examination conditions with results displayed as selectable thumbnails
- Image Comparison Function

EXPERT manual examination mode
- Complete control of all examination settings including illumination, filtration and imaging

General software features

- Image comparison facilities to compare split live and stored images side-by-side
- Pull-out image gallery of all recent work allowing comparison with current and previous images
- Editable image annotation facilities (text and various shapes including arrows, lines, boxes and circles)
- Save and Recall images complete with all examination settings

Software updates
- Software suite updates for 2 years

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