



A18.1819

LCD Touch Screen All-in-One Questioned Document Examination System





Features

- Brand New Design 2025! 17" Touch Screen All-in-On Document Examination System
- USB 3.0, 2.0M 1/2.8" CMOS, 30x Optical Zoom, 12x Digital Zoom, 60fps@1080p,
- Built-in 17" Touch Screen Computer With Win11, I5/8G/512G HD, USB3.0x1, USB2.0x2
- Pre-Installed Forensic Analysis Software, 3 Direction Open Door For Large Documents
- Diffuse Reflection Axis Light, UV Light, IR Light, Visible Excite & Receive Light Sources.

Light Source System

1. Uniform and strong light source: 1x 24V150w halogen lamp, equipped with special cooling fan, condenser lens, heat insulation glass;
2. Short-wave ultraviolet (SUV): 254nm: 1x10W, visible fluorescence;
3. Long-wave ultraviolet (LUV): 365nm: 1x10W, visible fluorescence;
4. Visible side light: 1x50W, which can detect infrared absorption and reflection, and the lamp stand can be adjusted at any angle for detecting indentation:
5. Transmission ultraviolet (UV): 2x10W, printing ink;
6. Transmitted white light: 2x20W, watermark can be detected;
7. The excitation filter of the visible light source adopts high transmittance, narrow half-width bandpass filter for 000nm, 365nm, 450nm, 465nm, 515nm, 530nm, 565nm, 580nm, 900nm;
8. Receiving filter: 000nm, 415nm, 450nm, 565nm, 700nm, 720nm, 740nm, 800nm, 900nm
9. Multi-band light source: 4-bands light source segmented observation

Image System

- USB 3.0 digital camera with 1/2.8" 2.0MP CMOS sensor
- 30x Optical zoom (With view field 4.3~129mm)
- 12x Digital zoom continuously
- Full HD video output up to 1080p @60fps
- Uncompressed and lossless video transmission
- Pre-Installed Forensic Analysis Software, 3 Direction Open Door For Large Documents
- Support Windows & Linux system



More Features

- 17-inch touch-screen all-in-one system with wireless keyboard/mouse, program-controlled operation, ensuring stable performance and user-friendly interface.
- External LCD displays real-time excitation and cutoff filter wavelengths; three-door design enables convenient observation of large samples.
- Save all detection images and data, supports high-definition live printing via integrated printer.
- Supports multi-mode image comparison: horizontal/vertical/universal stitching, overlapping ghosting, image cutting, and real-time static/dynamic image analysis.
- Enables precise measurement of chromaticity, grayscale, reflectivity, and absorbance at specified points or regions; features automatic depth-of-field synthesis, deblurring, geometric correction, and rapid image processing.
- Offers color-to-gray conversion, color merging, separation, and filtering functions.
- Advanced image processing includes pen-writing sequence analysis, stamp backbone extraction, curve/linear shaping, measurement, annotation, mirroring, and more.

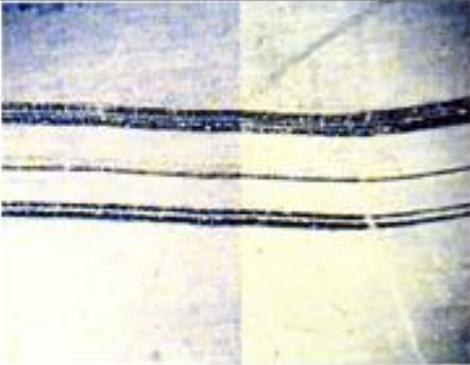
Main Functions

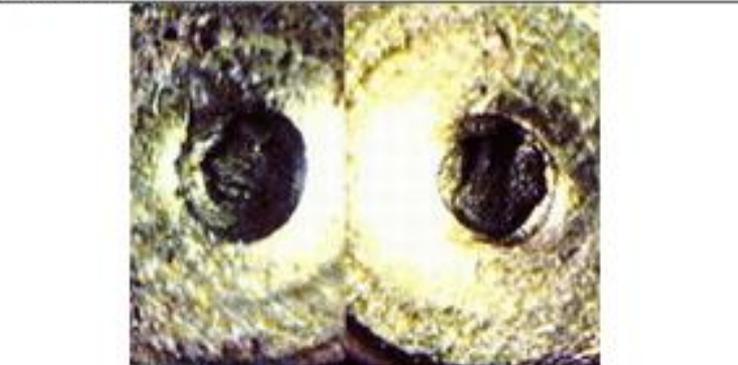
- Various excitation light and filter combinations test fluorescence differences in inks.
- Reflective light with filters assesses ink absorption and reflection across light bands.
- Reflected light and filters evaluate infrared penetration effects on inks.
- Transmitted light with filters tests infrared penetration through inks.
- Side-lit grazing incidence reveals scratches and cuts on documents.
- Bottom-up transmitted light detects cuts and repairs in documents.



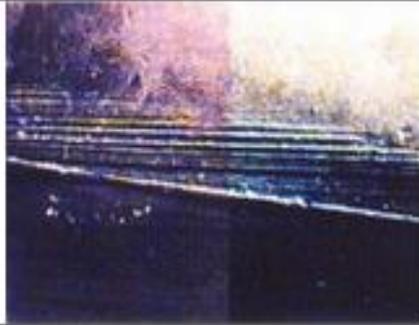
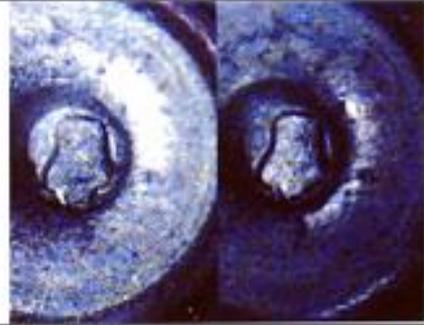
A18.1819 Work With A30.1801 Forensic Image Analysis Software Crime Image

These image cases demonstrates handwriting analysis using a forensic document examiner's instrument, revealing subtle variations in pen pressure and stroke sequence. The high-resolution comparison highlights discrepancies between genuine and forged signatures, aiding in accurate authentication and providing critical evidence in legal investigations.

The joint and comparison between different object trails		
		
Joint of two cartridge cases	Joint of two cartridge cases	Joint of two cutting trails
		
Joint of two broken plastic objects	Joint of two scratch trails	Joint of two stamps

Comparison between two cartridge cases	
	
Comparison between two cartridge cases fired by same pistol	Comparison between two cartridge cases fired by different pistol

The comparison between two bullets from same pistol

		
Joint of the trail of bullet ejection	Joint of the trail of warhead rifling	Comparison between trail of firing pin on bottom of the bullet

Checking documents modification under different wave length light

	
View under normal light source, the handwriting and inks seems the same	View under excited infrared light source, it shows the modification clearly

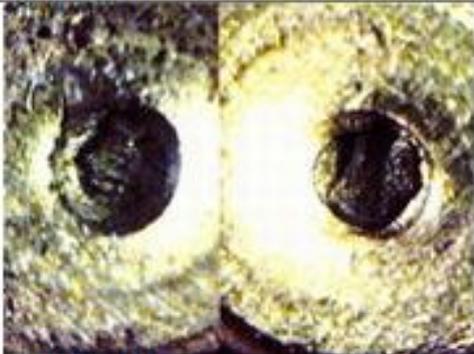
		
View under normal light source, the handwriting and inks seems the same	View under excited infrared light source, it shows the modification clearly	View under excited infrared light source, it shows the original handwriting clearly

	
The text covered by same ink	The text covered by different ink

Outstanding magnification function

		
Magnified part of cartridge case	Magnified part of shotgun cartridge case bottom	Observing cartridge case bottom under long working distance

Comparison between two cartridge cases

	
Comparison between two cartridge cases fired by same pistol	Comparison between two cartridge cases fired by different pistol

Crime Image can make blur image clearly

			
Focus-out Blur Image	Restoration Effect	Motion Blur Image	Restoration Effect

Change wave band to get a clear image

			
Gray-scale expand image	Gray-scale expand effect image	Image under normal length	Image under different wave length

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