

Fingerprint Comparator

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Comparing fingerprints can be tedious work if you aren't using our fingerprint comparator. Magnify latent fingerprints or other types of evidence—up to six times their original size—with this unit, which will hold 8" x 8" fingerprint record cards, lifting tape, and photographs. A split image projection screen will let you compare two fingerprints simultaneously. A 150-watt projecting lamp provides all the light you need to identify and compare tiny details. Manufactured of aluminum, steel and plastic, this unit is sturdy and dependable. It only weighs 23 pounds, so you can move it from office to office. A built-in cover will shield ambient light and enhance the document you're viewing.

Leading Particulars

- All-metal aluminum/steel construction
- Dual f/3.5 optics (no image overlap)
- Independent rack-and-pinion focusing
- 150-watt projection lamp
- Forced air cooling
- Fixed viewing screen hood
- Clear Plexiglas™ hold down plates
- Front surfaced mirrors
- 6X magnification
- Portable
- Dimensions: 15 3/4" L x 12 3/8" W x 20" H
- Weight: 20 lbs.
- 120 VAC 50/60 Hz operation (220-volt operation available)



This is a close-up of an actual screen display on the fingerprint comparator.



The fingerprint comparator is pictured in use.

CATALOG NO.	DESCRIPTION	PRICE
0800	Fingerprint Comparator	

FX10 Forensic Macro Video System



LCD Preview Monitor (above) shows the comparison of latent prints on gun and known prints from a record card using the No. FX10B.

A New Standard in Evidence Comparison and Evaluation!

The new FX10A & B are state-of-the-art, stand-alone comparators for evidence examination and enhancement that promise to revolutionize the manner in which physical evidence is currently evaluated. This video-based forensic tool utilizes two matched, high-resolution cameras coupled through an enhanced, all solid-state video splitter. A and B channel images may be viewed individually in the full screen mode or images may be split for side-by-side or above/below comparisons. ~5X to ~45X magnification of images is controlled by easily accessed zoom controls on top of the unit. The operator may fade-in (superimpose) one image over the other permitting critical alignment of ridge structure, tool marks, etc. for precise visual comparison.

Images may be viewed on the built-in Preview LCD monitor (FX10B and FX10BC only). A BNC-type video output connector feeds video to the larger external 13" color monitor (included). Optionally, an NTSC compatible VCR, video printer, or a computer equipped with an NTSC compatible video capture card may be connected to the video output.

Features:

- Variable Magnification: ~5X - ~45X (A and B)
- Video Output: Standard NTSC B&W (FX10A and FX10B), NTSC Color (FX10AC and FX10BC)
- Split Screen: Horizontal or Vertical w/adjustable window size
- Fader: Mix 'A' with 'B', Full Screen, linear from 0 to 100%
- Full Screen Display: 'A' or 'B' selectable
- Pos/Neg: Positive or Negative 'A' video display, selectable
- Power Supply: 120/240V AC, 50-60 hz, auto sense
- Platform Stages: Adjustable height 3"-8"
- Ring Lights: 20-watt 'A' and 'B', On/Off
- Preview Monitor: 4" LCD Monitor, built-in (FX10B and FX10BC only)
- Camera: 560 TV lines, horizontal, 2 ea. (NTSC) B&W (FX10A and FX10AC); 550 TV lines, horizontal, 2 ea. Color (FX10B and FX10BC)

Specifications:

- TV System: EIA (FX10A and FX10B); CCIR (FX10AC and FX10BC); all (NTSC)
- Image Sensor: 1/4" Interline Transfer CCD
- Effective Picture Elements: ~380K (FX10A and FX10B); ~440K (FX10AC and FX10BC)
- Scanning System: 2:1 Interlace
- Sync System: Internal
- Resolution (Horizontal): 560 TV Lines, B&W (FX10A and FX10B); 550 TV Lines, Color (FX10AC and FX10BC)
- S/N Ratio: 48 db
- Minimum Illuminance: 0.12 lux
- Gamma: 0.6/1.0
- Image Output: Composite Video Signal 0.75V ± 0.15V p-p
- AGC: 26 db (typ)



The LCD Preview Monitor allows for convenient alignment and focusing without distraction.



No. FX10B is used to compare a lifted latent fingerprint with known prints from a record card.



Forensic Video-Based Optical Comparator

The video cameras in the FX10 series of comparators feature automatic gain control (AGC) to ensure optimum viewing under various lighting configurations. High quality, precision-ground lenses provide sharp, undistorted images through the full zoom range of ~5 to ~45 power. Dual 20-watt circular fluorescent, long-life, inexpensive lamps provide cool, bright, shadow-free illumination. Independently operated, stainless steel focusing jacks (stages) provide a stable and adjustable platform for observation, examination and comparison of both two- and three-dimensional objects.



Comparison of latent prints side-by-side using vertical screen split.



Handwriting comparison is made using the horizontal split screen.



Similar fabrics viewed through the vertical split screen.



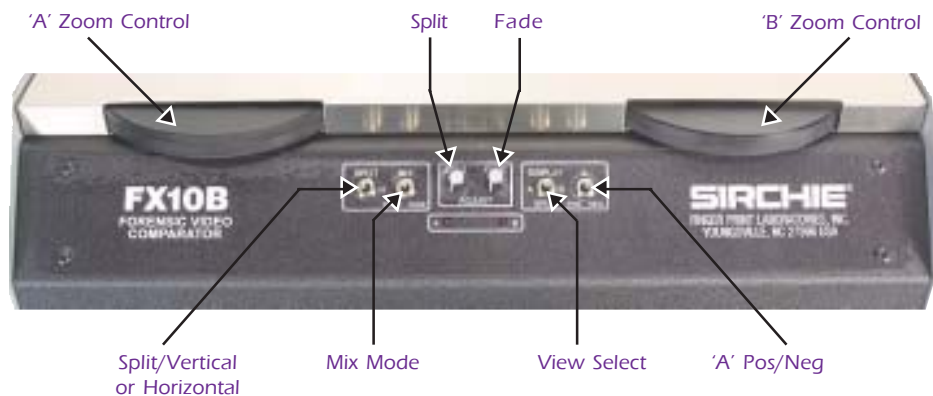
Dissimilar fabrics



Torn paper under one channel (B) only.

CONTROL PANEL:

Controls for the FX10 series comparator are conveniently located on the front of the unit. Two large Zoom Controls permit precision adjustment of image size. Toggle switches allow the operator to access various functions such as Vertical or Horizontal split screen, Mix Mode for image overlay, Display/Split mode and Positive/Negative image mode. Image Position and Image Fade functions are controlled by potentiometers.



FX20P Digital Video Printer

Obtain hardcopy printouts and/or save screen images to CD from the FX10 series of comparators with a digital video printer.



SPECIFICATIONS:

OPTICAL:

- Zoom Ratio: ~8x
- Aperture: f/7 (low mag.)-f/10 (high mag.)
- Magnification: ~5X - ~45X on 13" diagonal monitor
- Lens Construction: 10 elements in 7 groups
- Filter Size: M40.5 x P0.5

VIDEO SPLITTER:

- Digital Memory: 512 x 512 with 256 Gray Levels

4" LCD MONITOR:

- Format: NTSC
- Resolution: 234 x 383 dpi
- Backlight: Cold cathode fluorescent lamp
- Size: TFT 4.1" x 3.3" LCD display

CATALOG NO.	DESCRIPTION	PRICE
FX10A	Comparator w/out preview monitor (B&W video)*	
FX10B	Comparator w/preview monitor (B&W video)*	
FX10AC	Comparator w/out preview monitor (Color video)*	
FX10BC	Comparator w/preview monitor (Color video)*	
FX20P	Digital Video Printer	

*(13" Diagonal Color Monitor Included.)

FX8B Forensic Optical Comparator

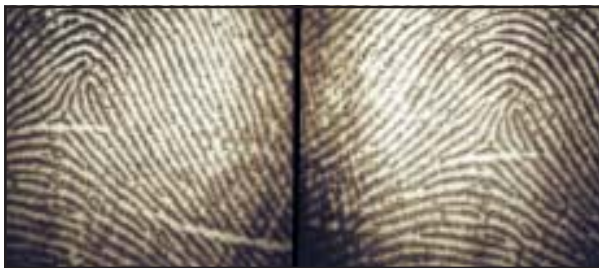


FX8B Forensic Optical Comparator

Absolutely one of the finest forensic comparators available. Constructed of aluminum and steel, our FX8B forensic optical comparator was designed for maximum performance and convenience. A large 6½" x 15" dual projection screen makes latent prints, money, documents, signatures and other types of evidence easy to see. You definitely won't have to strain your eyes to see these objects. Dual 300-watt quartz projection lamps light up the images, which can be placed side by side without overlapping each other. The lamps are controlled by individual front-panel switches so you can use one or both of them. Lamps have high- and low-power settings and are monitored by an internal switch which activates the FX8B's 4" silent-running fan. A pair of objective lenses allow you to magnify images up to 10 times their original size. Focus controls are easy to reach and an adjustable sliding hood visor keeps the glare off your screen. There's plenty of room on the focusing platform to fit a variety of objects including money and even an 8" x 8" fingerprint record card — which means you don't have to fold or bend them anymore to make them fit.

Features:

- Dual screen projections
- No image overlap
- Dual 300-watt quartz projection lamps
- Dual or simultaneous operation
- Adjustable focusing platforms
- Matched f/3.5 objective lenses
- Dual power magnification (6.5X and 10X)
- Sliding turret with pre-focused illumination
- Four-inch internal cooling fan
- Thermal cutoff of fan below 100° F
- Aluminum/steel construction
- Hardwood Formica®-covered base
- Easy access relamping doors
- Viewing screen 6 1/2" x 15"
- Sliding ambient light shield
- Overall Dimensions: 20 1/2" x 18" x 20 1/2"
- Weight: 55 lbs.
- 120 VAC 50/60 Hz operation (220V available)



Two fingerprints are compared side-by-side under 10X magnification. Note the superior ridge definition and freedom from distortion over the entire screen area.



The No. FX8B features smooth, fine-focus focusing platforms.



The No. FX8B delivers clear, sharp images.

CATALOG NO.

DESCRIPTION

PRICE

9666 FX8B Forensic Optical Comparator

