
TECHNICAL INFORMATION

Color Forensic Video Magnifier

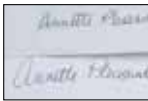
Catalog No. FX9XL

INTRODUCTION

Designed to reduce the tedium of spending countless hours peering through a magnifier, the FX9XL Forensic Video Magnifier eliminates eye and shoulder fatigue by bringing the evidence to a comfortable viewing level. State-of-the-art technology abounds in this compact tabletop device: LED fully adjustable illumination; 3.5X video magnification; a four-inch diagonal, high resolution Liquid Crystal Display (LCD) viewing screen.



Easily match paint fragments.



Analyze questioned document.



Match torn fibers.



SETUP

Upon receipt of the original shipment, carefully unpack the magnifier and inspect for damage. If any damage is noted, please notify our Customer Service Dept. Retain all shipping materials for inspection by the delivering carrier.

Place the magnifier on a flat surface convenient to your work area. Attach the power cable to the jack on the lower right rear of the unit (Fig. 1). Plug the 110V/220V power supply into an appropriate power outlet.



FIGURE 1

USING THE FORENSIC VIDEO MAGNIFIER

Facing the viewing screen, depress the POWER switch (left side of control panel). This switch controls both the video camera and the LED illumination system. Depress the LIGHTS switch (right side of control panel) to activate the twin LED lights. Position an item to be examined on the platform beneath the video camera lens. Adjust the DIMMER control (center of control panel) for a comfortable light level (Fig. 2).

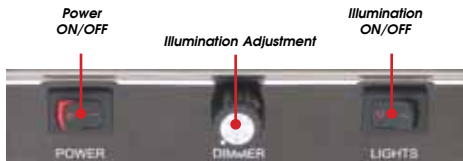


FIGURE 2

ADJUSTING FOCUS AND LENS APERTURE

The FX9XL has a magnification of 3.5X at the working surface (Fig. 3). It is designed for use when examining full 10-print record cards as well as many other items and, therefore, it should not be necessary to repeatedly re-focus the instrument. When it is necessary to



FIGURE 3

fine tune the focus, move the focusing control using the lever attached to the barrel toward the NEAR or FAR direction until prime focus is achieved (Fig. 4). To secure documents to the surface, 4 bar-type magnets are provided.

It may become necessary to add contrast to the item being examined. This is best accomplished by adjusting the aperture control. Grasp the barrel shown in Fig. 4 and twist in either the OPEN or CLOSE direction.

VIDEO OUT JACK

External video monitors, recorders or computers equipped with a video capture capability may be connected to the unit. Using a video cable (not provided), connect one end to the Video Out Jack on the lower left rear of the unit and the other end to equipment with a suitable RCA-type Video-In Jack.



FIGURE 4

MAINTENANCE

GENERAL—Remove dust from the surface with a damp cloth. Use warm distilled water or a commercial LCD cleaning solution with a clean lint free cloth to clean the LCD screen. Dampen the cloth and gently wipe the LCD screen. For the camera lens, use a lens cloth, available at camera and most electronics stores.

FUSE REPLACEMENT—In the event the fuse needs to be replaced, unplug the unit and remove the fuse from the rear (ref. Fig. 1). Replace with type 3AG 1-amp fuse.

FX9XL SPECIFICATIONS:

HI-RES COLOR VIDEO CAMERA

- TV System: NTSC
- Image Sensor: .25" (6mm) Inter-line Transfer CCD
- Effective Picture Element: 768H x 492V pixels
- Sync. Frequency:
 - Horiz.: 15.734KHz
 - Vert.: 59.94Hz
- Resolution: 470 lines
- S/N Ratio: > 50dB
- Min. Illuminance: < 2.0 Lux @ f/1.2

- Gamma: 0.45
- Video Output: 1.0Vp-p/75W
- White Balance: Auto Tracking
- Lens: 12mm; f/1:1.4 CS mount

LCD MONITOR 4" (10.2cm)

- Format: NTSC
- Resolution: 234H x 383V pixels
- Backlight: Cold cathode fluorescent lamp
- Size: TFT 4.1" x 3.3" (10.4cm x 8.4cm) LCD

HOUSING

- Brushed nickeloid and painted aluminum

AC POWER ADAPTER

- 110V/220V 50/60Hz universal

DIMENSIONS:

- 11"H x 14.5"D x 8.875"W (27.9cm x 35.6cm x 22.5cm)
- Weight (unit only): 6.853 lbs. (3.11kg)

FX9XL CONTENTS:

- 1- Color Forensic Video Monitor
- 1- Universal AC Adapter (110V/220V AC)
- 1- FX9100 Classification Disc Holder (only)
- 4- Bar Magnets