

## Frequently Asked Questions

### **You claim image quality greater than or equal to that of systems that cost thousands of dollars more. How is that possible?**

No matter how expensive a system is, all of the other image projection systems start with a strong halogen light source. They then add a set of lenses, mirrors, motors, prisms, and Fresnel or condenser light diffusion surfaces. Image fidelity is lost as they project, reflect, refract, and magnify the image for viewing, printing, and or scanning. By linear scanning directly from the surface of the film, our systems eliminate the expense, degradation and the distortions that plague projected image systems. No more images with a bright "headlight effect" at the center, and darker areas out to the edges of the page.

### **What size lens do I need?**

The ST200 system's unique integrated digital zoom lens, included with the system, provides a universal solution for viewing any 35mm and 16mm images. The scanner captures its image directly from the surface of the film, so you do not need any additional lenses, yet it can capture images of any reduction from 9X to 48X

### **Can it handle both positive and negative film images?**

Yes, and it can allow the viewing of images to be inverted from negative to positive, or from positive to negative with the push of a button. You can also change the image polarity prior to scanning, independent of the mode chosen for viewing. Example: Sometimes people actually find it easier to view images in negative mode. You can view in negative mode, but tell the scanner to change it over to a positive mode before printing to saving to a PC file.

### **What are the film carrier options?**

There is a carrier that moves the film manually, and there is also a motorized system. The motorized system has browse mode, slow, and fast modes for moving film forward or reverse. The motorized system has a switch to properly orient film regardless of how the film is wound (emulsion in or out).

### **Do I need a PC?**

You do not need a PC to view images, because the processor built into the ST200DFV Digital Film Viewer sends its image to any PC monitor independently from the PC. If, of course, you do want to scan and save the images to a PC, or print them out using a PC connected printer, then you do need a PC for those functions.

### **What are the specifications for an appropriate PC?**

Item	Recommended	Minimum
Processor Type	Intel® Pentium®	Equivalent
Operating System	Microsoft Windows XP Home Edition® Microsoft Windows XP Professional®	Windows 2000®* *XP has proven to be a

	<b>Microsoft Windows 2000 Professional<sup>®</sup></b>	more stable environment
<b>RAM Memory</b>	<b>512MB</b>	256MB
<b>Hard Disk Space</b>	<b>800MB</b> (temporary storage for CD files)	50MB for program files
<b>PC Monitor</b>	<b>1 color monitor 17" or larger</b>	15" minimum
<b>Screen Resolution</b>	<b>1024 x 768</b> or higher	800 x 600
<b>CD-ROM Drive</b>	<b>Ability to burn CD-R/CD-RW*</b>	Ability to burn CD-R
<b>USB Connection</b>	<b>One direct connection at 1.1 or higher</b>	1.1 via multiplier hub

\*CD burn capability is optional. It is only required if you intend to allow users to save images out to CD media.

### How much does it weigh, and what are the dimensions?

ST200 Digital Film Viewer and Scanner System	Item Width	Item Depth	Item Height	Item Weight	# Of Boxes	Shipping Weight
Digital Film Viewer	16"	20"	16 ½"	18 lbs.	1	28 lbs.
Scanner Assembly	23"	14 ½ "	5"	9 lbs	1	14 lbs
Total Assembled System	23"	20"	16 ½"	27 lbs	2	42 lbs

### How fast does it Handle Images?

Viewer Mode: Immediate (refresh rate of 20 frames per second) -Preview Scan to PC Window: 6 seconds (after initial warm-up / calibration) -Scanning Speed: About 30 seconds to a full minute depending on resolution

### You tout an optical scan resolution of 1800 to 2700 dpi. Is this really needed?

Yes, because we are grabbing up to a full newspaper page-sized amount of detail while scanning an area of only about one square inch of physical size.

### Won't a 2700 dpi scan make the image files very large?

Nope, not at all. Since we are only scanning one inch, files are 80 times smaller than if we were scanning an area equivalent to a normal 8 x 10 print area of letter-size paper documents or photos. Files average 1 or 2 mb when saved at 1800 to 2700 dpi in popular compressed file format types.

### What file types does it save to?

Most popular formats including uncompressed Tiff, compressed Tiff (Group 4), Jpeg, Png, PDF single, and PDF multi-page document formats

### Do we have a coin-op option?

The manufacturer of the ST 200 does not offer a coin-op system. However, we do send our images to or through any network-connected device, so that if the library has a charge account system, or a debit card system, it can be used for billing purposes.

### Does this system allow for charging user cards?

Yes, The ST200 is compatible with any Windows XP or Windows 2000 compatible card account system.

**Is the system customer installable?**

Yes! At only a combined weight of 27 pounds, the system is small, compact, easy to unpack and easy to assemble. It does require a network administrator level of authority and familiarity with installing software and connecting peripherals to a PC.

**Will installation and training by an on-site technician be offered?**

Yes. Please check with your dealer or reseller regarding any additional support services they offer. A third party service company is also being contracted, check with the manufacturer for alternate service and support offerings.