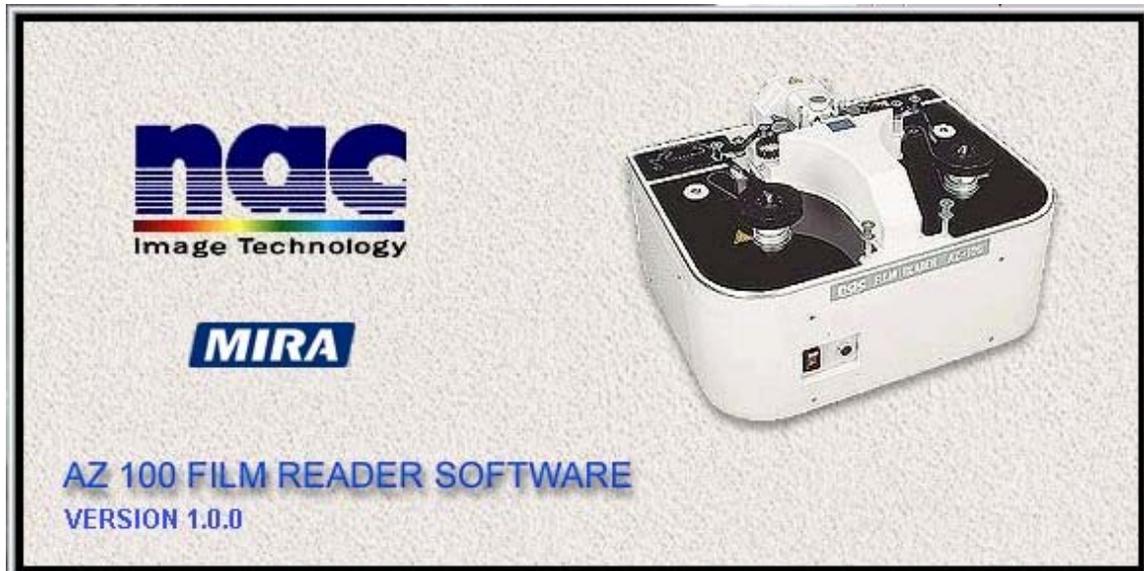


# AZ-100 Film Reader



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## Introduction

### AZ-100

- Automatically converts black and white or color 16 mm film to computer recognizable TIFF or AVI files or S-VHS video using the NTSC video standard.
- The AZ-100 is remotely controlled by computer and interfaces directly with both the ImageExpress and CARS.
- Converted Images are stored on PC hard disk, other computer storage peripherals, or on S-VHS videotape.
- Selectable film transport speeds of 0-10 frames/sec. (variable), 15 frames/sec. or 30 frames/sec. give the user the flexibility to convert images at a high rate of speed or to

review images frame by frame.

- Optional high resolution capability provides monochrome video output of up to 1000 TV lines per frame.

This software allows the user to control the AZ-100 Film Reader with a simple easy to use interface. It allows output of images to standard MICROSOFT AVI File FORMAT, or TIFF (Tagged Image File Format) .

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## Using AZ-100 Film Reader

The user display has four main areas.

- Film Reader Control
  - Display Settings
  - Image Display
  - Menu
- 

## Film Reader Control



The main toolbar allows the user to control the film reader, and capture images from the film.

Main Controls



This button plays the film at 15, 30 or a user defined speed 1-10 Frames per Second (FPS). This is defined in the user settings.



This button stops the film playing.



Steps forward a single frame.



### STEP REWIND

Steps back a single frame.



### REVERSE PLAY

Pressing this button will play the film backwards at the defined speed.



### RECORD

This button will record images at 15 or 30 FPS, adding frame information to the image. The output format can be Microsoft AVI or TIFF format.

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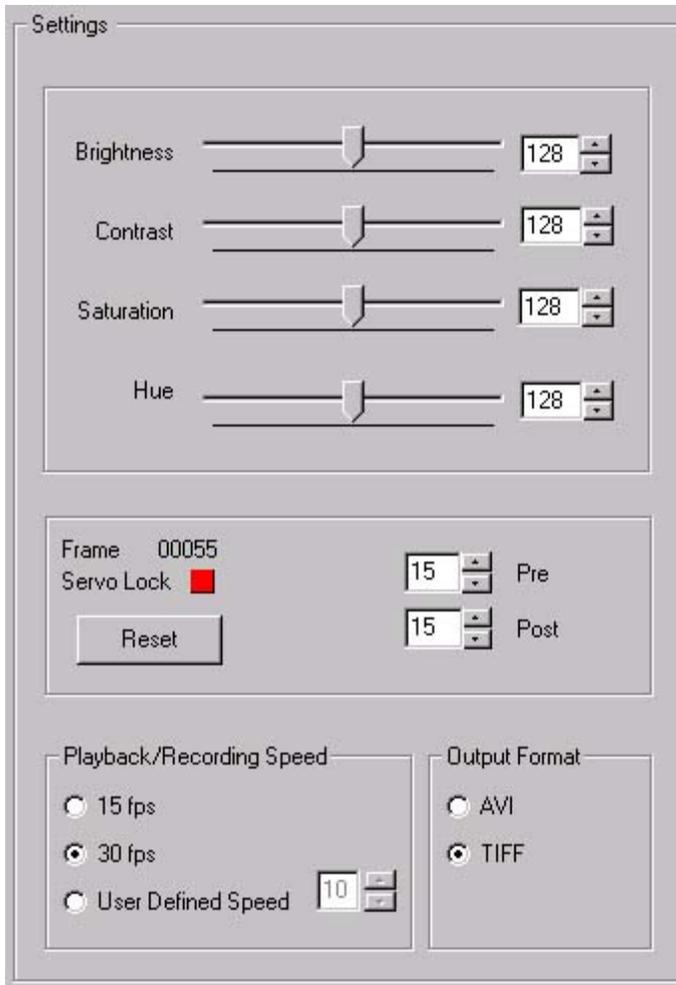
## Display Settings

The Settings panel allows the user to control different features of the software.

- Control the Display properties of the Image using the sliders or define using up down selector.
  - Brightness
  - Contrast
  - Saturation
  - Hue

Pressing F2 resets these settings to the default setting.

- Select number of frames



to record (Pre and Post) as well as reset the frame counter.

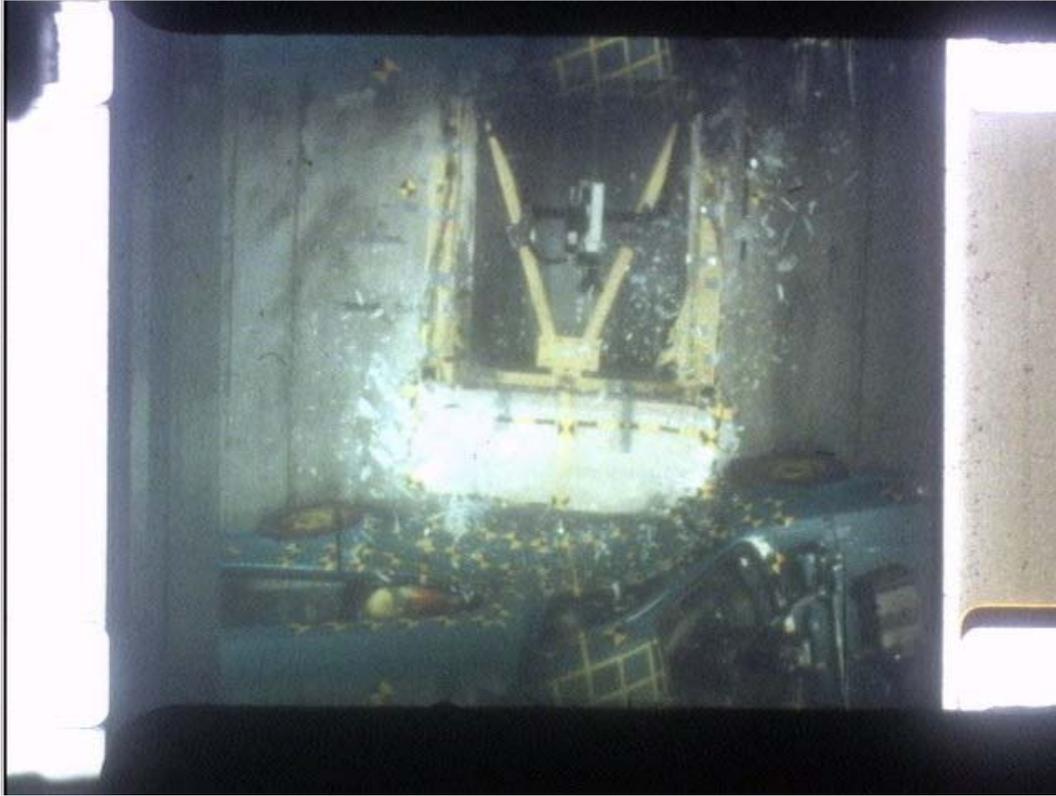
- View the servo state of the film
  - This indicator shows whether the film is running at a constant speed.
- Set the playback or recording speed
  - Set the film speed to 15, 30 or 0-10 fps.
- Set the Output Format to Microsoft AVI (Video) or TIFF format

Pressing F3 hides these settings and shows the image display only. Pressing F3 again will redisplay these settings.

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## Image Display

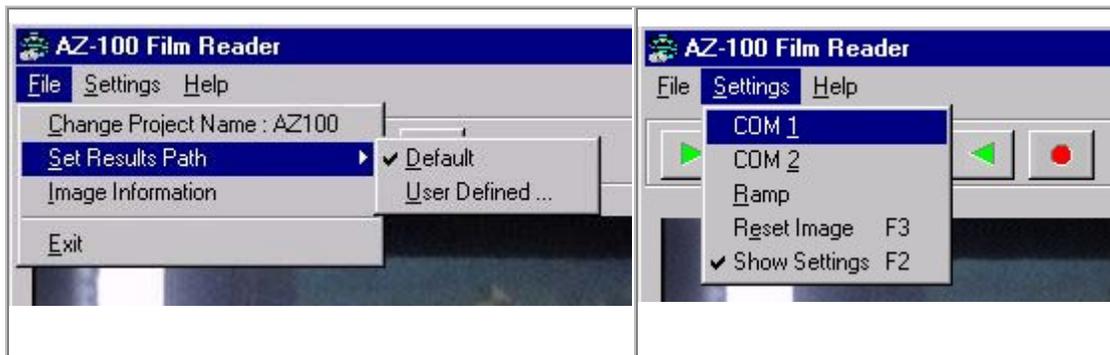


- The Image Display gives a view of the current frame being read by the film reader. This display is shown "live" during play back and frame advance/ reverse. During the recording of frames, this display is shown after the capture has finished as it is saving a video or individual image files.

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## Menus



The menu is broken down in two sections ...

- FILE
- SETTINGS

### FILE

This allows the user to :

- change the project name (DEFAULT : AZ100)
- Set the results path : Use the default or define/create a directory to place the output files.
- View Image Information : This allows the user to find out how many images the software is capable of capturing. This can be increased by increasing the amount of RAM in the machine.

### SETTINGS

- COM1 and COM2 : Define which port the AZ-100 is connected to.
- Ramp Up Speed : Define the number of frames required to for the AZ100 to build up to speed.
  - If the machine is not up to speed during capture, capture of all the images will not take place.

- Reset Image resets to the image brightness, contrast, hue and saturation.
  - Show settings (on/off) shows and hides the settings.
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## About the Software



The software was developed at MIRA for NAC Image Technology  
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