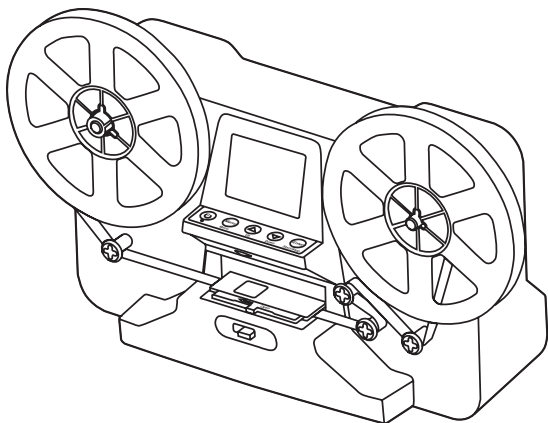


# MAGNASONIC

## FS81 User Manual v1.2

Super 8/8mm Film Scanner



Thank you for your purchase of this Magnasonic product. Please read this user manual carefully before using product to ensure proper use. Keep this manual in a safe place for future reference.

[magnasonic.com/support](http://magnasonic.com/support)

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# MAGNASONIC

Thank you for your purchase of your Magnasonic product.  
We hope you enjoy your experience.

Help others make the right choice, leave a product review and share your experience.

**Questions? Give us a chance to help, we're just a click away.**



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[www.magnasonic.com/resources](http://www.magnasonic.com/resources)



[www.magnasonic.com/support](http://www.magnasonic.com/support)



[www.magnasonic.com/contact](http://www.magnasonic.com/contact)



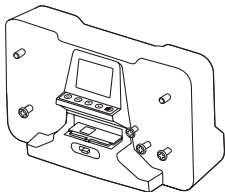
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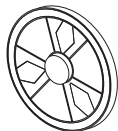
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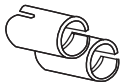
## What's Included



Super 8/8mm Film Scanner



7" Reel



Reel Adapter (x2)



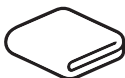
Power Adapter



USB Cable



TV Out Cable (RCA)



Cleaning Cloth



User Manual



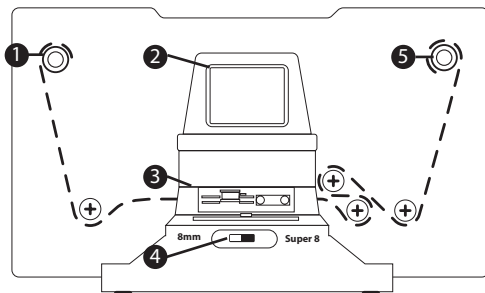
Lifetime Customer Support



1 Year Warranty

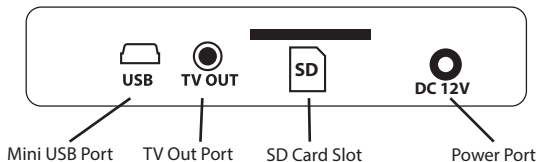
# Product Information

## Front

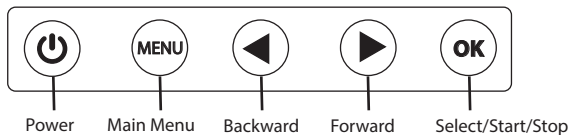


1. Left Reel Shaft
2. LCD Display
3. Film Insert Door
4. Film Type Switch
5. Right Reel Shaft

## Back



## Buttons

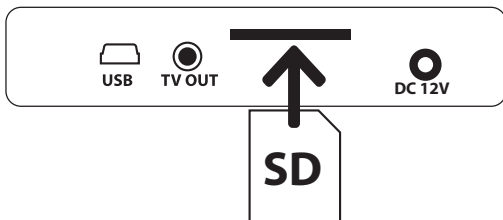


[View the full walkthrough and setup video for the FS81.](#)

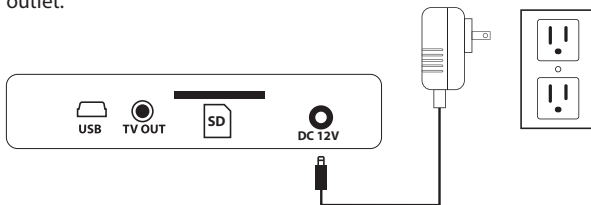
## Powering on Your Super 8/8mm Scanner


1. Insert an SD card (not included) into the SD card slot at the back of the film scanner. An SD card (CLASS 4 or above) is required in order to scan and save video.

*IMPORTANT: Inserting an SD Card after powering on the scanner will cause the scanner to shut off*



2. Connect the power adapter into the DC 12V port at the back of the film scanner. Plug the other end of the power adapter into a power outlet.

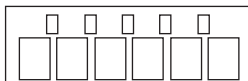


3. Press the  button on the scanner to turn it on.

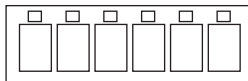
*Note: The scanner's motor will rotate when it is turned on. This is normal.*

## Preparing Your Film

This scanner can support 8mm or Super 8 film on 3", 5" or 7" reels.



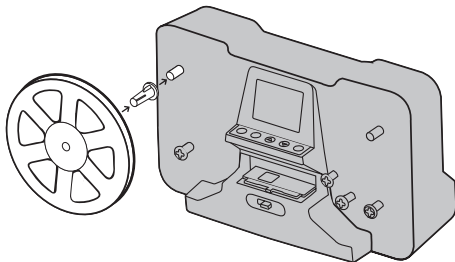
8mm



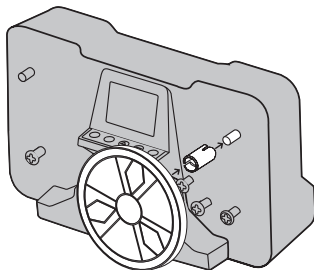
Super 8

1. Install your film reel onto the left reel shaft. Ensure the perforated holes on your film are on the inside, closest to the scanner.

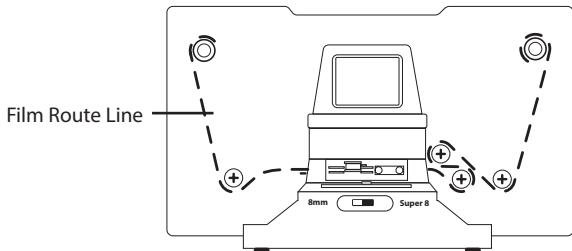
*Note: If using with Super 8 film you will need to install the red reel adapter.*



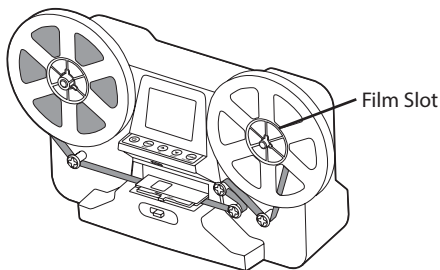
2. Install the included 7" film reel onto the right reel shaft of the scanner. If using a different reel use the grey reel adapter as needed.



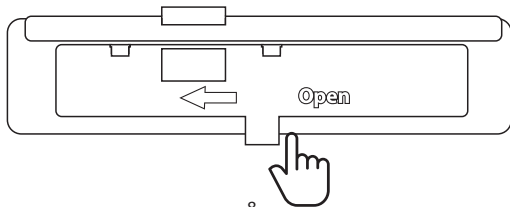
3. Feed your film along the dotted film route line on the film scanner to properly load the film onto the scanner.



4. Place the film around the empty film reel on the right, placing the end of the film into the slot on the reel. Gently rotate the reel 2-3 times to secure the film in place. Hold the film in place for the first rotation.

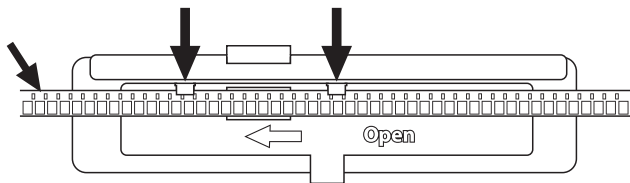


5. Slide the Open tab to the left to release the film tray door latch.





6. Insert the film ensuring that the film's perforated holes are at the back and placed under the two white tabs located on the film tray.

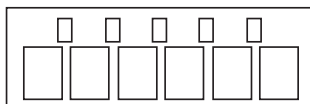


7. Once the film is secured under the tabs close the film tray door to lock the film in place during scanning.

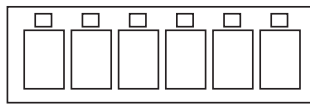
### Selecting Film Type

Change the film type to either 8mm or Super 8 by pushing the film type lever on the film scanner left or right.

*Note: Switching film types will prompt the reel motor to adjust. This is normal.*



8mm



Super 8

8mm



Super 8



# Adjusting Your Scan Settings

## Exposure (Brightness)

*IMPORTANT: Exposure can only be adjusted before recording video.*

1. You can adjust the exposure by going to Exposure on the main menu.
2. Use the ◀ and ▶ buttons to change the brightness value between 2.0 (brighter) and - 2.0 (darker). Note: The default setting is 0.0.
3. Once you have chosen the value, press the OK button.

## Sharpness

*IMPORTANT: Sharpness can only be adjusted before recording your video.*

1. You can adjust the sharpness by going to Sharpness on the main menu.
2. Use the ◀ and ▶ buttons to change the sharpness to either Low, Medium, or High.  
*Note: The default setting is medium.*
3. Once you have chosen your sharpness, press the OK button.

## Frame Adjustment

*IMPORTANT: The frame can only be adjusted before recording your video.*

You can adjust the frame position by going to Frame ADJ on the main menu.

Use the ◀ and ▶ buttons to adjust the selected setting. Use the OK button to cycle through the different adjustments. Press the MENU button to return to the Scanning Mode screen.

X – Horizontal


Y – Vertical

W – Zoom

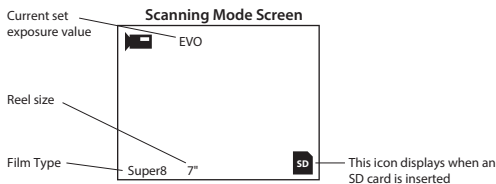
## Resetting to Default

If you would like to change all settings (Exposure, Sharpness, and Frame Adjustments) back to default, go to Default Setting in the main menu and press the OK button.




## Scanning Your Film

Ensure you are in Scanning Mode. If you are in the main menu, press the  button to exit. You should see the scanning mode screen below.


*Note: This film scanner will only capture video and not audio.*




**IMPORTANT:** Make sure that you are done changing your Exposure, Sharpness, and Frame Adjustment settings before moving onto the next step.

1. Press the  button to proceed to selecting the size of your reel. Use the  and  to move between reel size options. See Appendix A for a film reel size selection diagram.

Film Reel Size	Film Duration	Recording Time
3"	3 min	27 min
5"	7 min	60 min
7"	20 min	180 min

2. Press the  button to confirm your selection. Scanning will then begin automatically. While scanning, a red dot will appear at the upper left corner indicating that the recording is in progress. Your video will automatically be saved to the inserted SD card.

*Note: It is recommended to monitor recording for 1-2 minutes to ensure the film is feeding properly.*

3. You can stop scanning at any time by pressing the  button.

*Note: Stopping the recording means the video file recording will end. The next time you start the recording again, it will be a new video file.*

## Viewing Your Scanned Videos

1. Press the ◀ and ▶ button to enter the main menu.
2. Press the ▶ button to select Playback and press the OK button to enter playback mode.
3. Press the OK button to play or pause the selected video.
4. Press the ◀ and ▶ buttons to move between videos.
5. Press the MENU button again to stop playback on any video and enter the Playback sub-menu. Here you can Return to the playback menu, Delete a video, or Protect a video.

## Protecting Your Video File

1. Protecting your video file prevents it from being deleted. If you try to delete a protected file a "Protected!" warning will flash on the screen. You can lock either the current video file or all video files by choosing either Lock Current or Lock All.
2. To delete a protected file, go into the playback sub-menu, select Protect, and choose Unlock Current or Unlock All. You should now be able to delete the video.

## Watching Video on Your TV

You can use a TV or a monitor to view your saved videos on a larger screen.

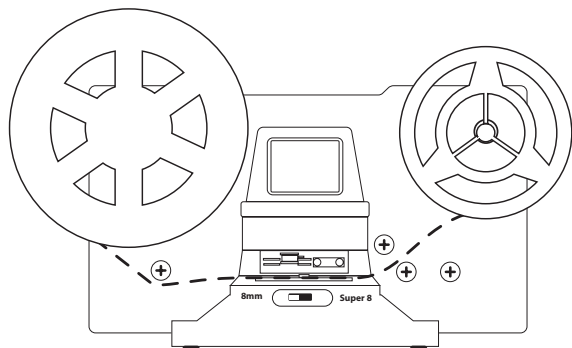
1. Power on the film scanner and your TV.
2. Plug one end of the included TV out cable into the TV OUT port on the back of the film scanner.
3. Plug the other end of the TV out cable to the yellow RCA input on your TV. If your TV does not have a yellow/RCA input you may need to use the Component Input instead.







*Note: If the image on the TV is in black and white a TV setting may need to be changed. Check your TV settings to enable Video Input or Composite Input. If your TV does not have this setting or does not have an RCA input, contact the TV manufacturer for instructions on using the yellow RCA cable.*

## Rewinding Your Film

Once scanning is complete you will need to rewind your film reel.





1. Remove the included 7" reel with your film on it. Install the reel on the left reel shaft.  
*Note: The red reel adapter may need to be removed.*
2. Install the empty original film reel on the right reel shaft, using the grey reel adapter if necessary.
3. Feed the film using the below diagram and install on the empty film reel. Remember to rotate the reel 2-3 times to secure it in place.



4. Press the  button to open the main menu.
5. Use the  button to select Fast Forward and press the  button to select it.
6. Use the  button to select Yes and press the  button to begin fast forwarding.
7. Once fast forwarding is complete press the  button to stop.

## Downloading Video to Your PC





*Note: The scanner will not scan directly to your PC.*

1. Plug the included USB cable into the USB port at the back of the film scanner.
2. Plug the other end of the USB cable into the USB port on your PC.
3. Ensure there is an SD card in the SD card slot on the scanner.
4. Press the  button on the scanner to turn it on.
5. Press the  button on the scanner to enter the main menu.
6. Use the  button to move to USB in the menu.
7. Press  to start the scanner-to-PC connection. The SD card is read like it is an external hard drive and will show up as a USB drive.
8. Open the FilmScanner folder and then the Movie folder. You should now be able to see your saved video files (MP4) that are on your SD card. Simply copy them onto your computer.







*IMPORTANT: Always safely eject the USB drive before disconnecting the USB cable.*

## Formatting SD Card

*IMPORTANT: Formatting your SD card will cause all information to be erased, including protected files.*

1. Press the  button to go to the main menu use the  button to go to Format.
2. Press the  button to select Format. "All data will be deleted" warning will appear. Press the  button to select "OK" and press the "OK" button to format.
3. Your SD card is now formatted.

## Changing the Language


1. Press the  button.
2. Use the  button to move through the menu and highlight Language.
3. Press the  button to select Language.
4. Choose your language by pressing  and  then pressing .

## Cleaning and Care

1. Please make sure the scanner is clean before using.
2. Do not use liquid cleaners.
3. Do not use organic solvents such as alcohol, gasoline, or thinner, to clean the equipment.
4. Clean inside of the product only with a dry cloth.

## Scanning Error

If you receive the error message "Please recheck film's place!", or if you are having difficulty with the film feeding, follow the below steps.

1. Ensure the film size switch on the front of the scanner is set to the correct size.
2. Open the Film Tray Door and check the film. Ensure it is properly threaded and installed under the white tabs.
3. Inspect the sprocket holes on the film for signs of wear. Worn sprocket holes may prevent the scanner from grabbing the holes and advancing the film.
4. Press the  button to clear the error message and attempt scanning again.

If the error returns then it could be an issue with the film. Test with another film to determine the root cause of the issue. If the issue persists visit [www.magnasonic.com/contact](http://www.magnasonic.com/contact) for further assistance.

## SD Card Error

If you receive the error message, "Cluster size wrong. Please format" when scanning follow the below steps.

1. Ensure the SD Card is CLASS 4 or higher and is 32 GB or less.
2. Follow the instructions in the Formatting SD Card section to format the SD Card.

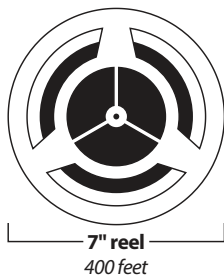
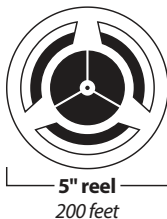
## FAQ / Troubleshooting

Film not feeding? See an error message? [Check out our Support Center for a full troubleshooting guide.](#)

Issue	Solution
How should I prepare the film to ensure the best possible scan?	The film should be free of any dust/fingerprints. This can be done with the included cleaning cloth.
I've noticed a consistent spot on every film I have scanned. Is something wrong with my scanner?	There is likely a small amount of dust inside your unit. Use the included cleaning cloth to ensure there is no foreign debris.
Do I need a computer to begin scanning?	Everything is plug-and-play right out of the box. You can save images to an SD card (up to 32GB) and then export to a computer at a time that is more convenient.
The scanner screen is black but it has power.	Ensure the TV Out cable is not connected to the back of the film scanner.
The TV Out image is in black and white on my TV.	A TV setting may need to be changed. Check your TV settings to enable Video Input or Composite Input. If your TV does not have this setting or does not have an RCA input, contact the TV manufacturer for instructions on using the yellow RCA cable.

## Appendix A

### Film Reel Size Selection





# Specifications

Image Sensor	3.53 Mega pixels (2304 x 1536) 1/3" CMOS sensor
Display	2.31" color TFT LCD
White Balance	Automatic
Exposure Control	Automatic/Manual (-2.0 EV ~ +2.0 EV)
Supported Film Type	Super 8 and 8mm film in 3", 5", and 7" reels
Languages	English, French, German, Italian, Spanish, Japanese, Simplified Chinese, Traditional Chinese
Scanning Method	Video Recording (no sound)
Resolution	1440 x 1080
PC System Compatibility	Windows XP, Vista, Windows 7/8/10
Mac System Compatibility	Mac 10.7.3
Image File Format	MP4
Light Source	LED Backlight
Scanning Speed	2 frames per second
Internal Memory	None
External Memory Card	Supports SD cards up to 32GB (Class 4 and above)
Power Supply	DC 12V/1500mA
Dimensions	12.6 (L) x 4.49 (W) x 7.36 (H) inches
Weight	3.88 lbs
Product Certifications	FCC

# Important Safety Instructions

1. Do not attempt to disassemble or modify any part of the scanner.
2. If any of the following conditions are present, stop using immediately, unplug the power cord, and refer to a qualified service professional for servicing:
  - A. If there is any smoke or unusual smell while using.
  - B. If the product has been exposed to rain, water, or other liquids.
  - C. If the product does not operate normally by following the operating instructions.
  - D. If the product exhibits a distinct change in performance.
  - E. If the product has been dropped or damaged in any way.

## Best Practices for Safe Use

1. Only use films of standard size.
2. Only use attachments/accessories specified by the manufacturer.
3. Unwind and straighten the USB cord before use.
4. Check that the power voltage stated on the rating label corresponds to your local electricity supply.
5. Unplug the power adapter from the wall when the product is unused for a long period of time and during thunderstorms.
6. Do not use this product near water.
7. Do not immerse this product, the power cord, or any accessories in water or any other liquid.
8. Do not block any ventilation openings.
9. Do not place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. Do not attempt to service or disassemble this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards.

## FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*NOTE: This unit may contain a microcomputer for signal processing and control function. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this should happen, turn off the unit, wait at five seconds, and then turn it back on again.*

## **Magnasonic® Warranty**

Thank you for choosing Magnasonic. We guarantee your investment in our products is a solid one! Extensive thought, research, planning, and design goes into every product we make. High quality components combined with precision manufacturing allows us to maintain the highest possible production standards. All items are guaranteed against defects in materials and craftsmanship.

Magnasonic products come with a complete one year parts and labour warranty. Proof of purchase from an authorized Magnasonic dealer is required when seeking warranty assistance.

Magnasonic has outstanding quality control, if something should go wrong with any of our products, we will repair it free of charge! If the product cannot be repaired, we will replace the product. If the product has been discontinued, we will replace the product with either the newest version of said product or current equivalent. Replacement parts furnished in connection with this warranty shall be warranted to a period equal to the unexpired portion of the original product warranty.

This warranty shall not apply to:

- Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner's manual.
- Any Magnasonic product tampered with, modified, adjusted or repaired by any party other than Magnasonic.
- Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.
- Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
- Any product received without appropriate model, serial number, and CSA/cUL/cULus/cETL/cETLus markings.
- Any products used for rental or commercial purposes.
- Any installation, setup and/or programming charges.
- Defect or damage as a result of connecting a product to an outlet with the incorrect voltage. Voltage converters must be used where applicable.

If in any situation your purchase displays a manufacturer's defect during the warranty period and does not function correctly, Magnasonic will repair your product and cover all parts, labour, and return costs upon delivery of the Magnasonic product together with proof of purchase.

Products returned to Magnasonic for warranty service must be shipped prepaid (paid by customer). Products must be shipped in the original shipping container or its equivalent; in any case the risk of loss or damage in transit is to be borne by you.

We believe everyday experiences should be extraordinary. We pledge to work with you in resolving any issue that occurs with your product. If you are in need of assistance do not hesitate to visit our support page at:

[www.magnasonic.com/support/](http://www.magnasonic.com/support/)

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