

# MAGNASONIC

## FS51 User Manual v1.0

23MP All-In-One 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)**

# MAGNASONIC

Since 1954, Magnasonic has been a leader in developing innovative and unique products. We are dedicated to empowering people using six key fundamentals: superior quality, performance, simplicity, style, value and a fanatical obsession with outstanding customer service. At Magnasonic, our mission is a simple one – create people-driven products that make life's daily adventures easier and more fun.

We believe everyday experiences should be extraordinary.

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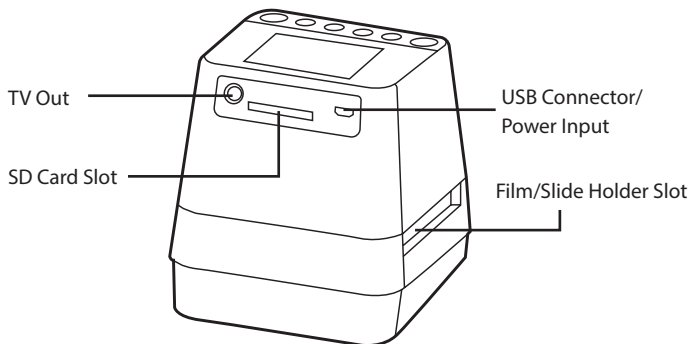
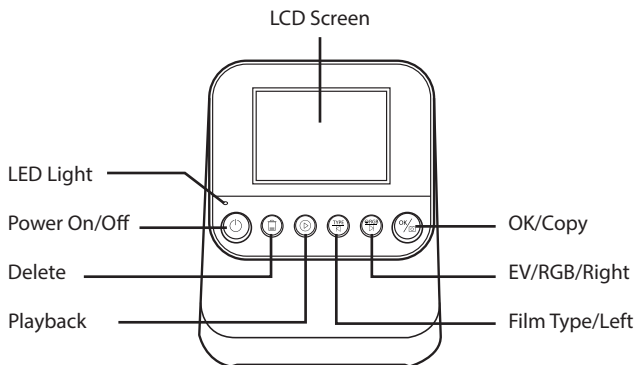
## What's Included

- 23MP All-In-One Film Scanner
- 135 slide/main film tray
- 135 film adaptor
- 110 film adaptor
- 126 film adaptor
- USB to micro USB cable (59.1")
- USB wall adapter
- TV out cable (59.1")
- Cleaning brush

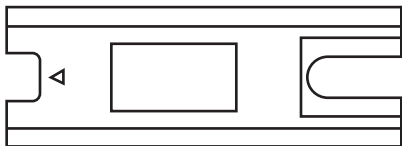


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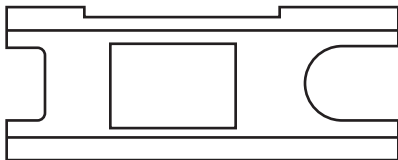
# Product Information



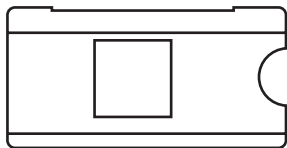
135 Slide Holder/Main Holder



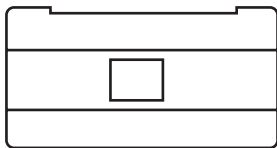
135 Film Adaptor



126 Film Adaptor

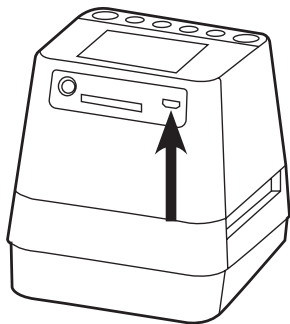



110 Film Adaptor



## Operating Instructions

1. Using the included micro USB to USB cable, connect the micro USB plug to the micro USB port on the film scanner.



2. Connect the other end of the USB cable into the included USB wall adapter.
3. Press the power button on the scanner to turn it on. A blue LED will turn on indicating the scanner is on.
4. On the LCD screen, a pop up will appear asking if you'd like to link the film scanner to your PC. If you do not want to connect to your PC, select "No" by pressing the  button. If you would like to connect to your PC, see "Downloading Images To Your Computer" on page 12.
5. You are now ready to scan.

*NOTE: This scanner has 64MB of built-in memory available to store scanned images. You may also use an SD card (up to 32GB) to save even more scanned images. See "Using an SD Card" on page 8 for more details.*

## Using an SD Card



Insert the SD card, face down, into the SD card slot located at the back of the film scanner. The SD card will click in automatically if inserted properly. Remove the SD card by pressing it in until it clicks and pops out, then remove it from the slot.



*NOTE: This film scanner will only accept SD and SDHC cards with a maximum of 32GB of storage. XDHC SD cards are not compatible.*





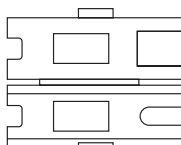
## Selecting Your Film/Slide Type

1. On the bottom left corner of the screen you will see the  symbol. This logo represents the film type being scanned. It is automatically defaulted to 135 film. To change the film type to match what you are scanning, press the  button until you see the icon that represents your film/slide type.

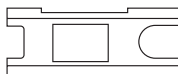
Film/Slide Type	Icon
135 Positive Slide	
135 Negative	
135 Black & White	<b>B/W</b>
110 Negative	<b>110</b>
126 Negative	<b>126</b>

2. Select the appropriate film/slide adaptor for your film/slide type as shown on page 6.
3. Open the main holder, select the appropriate film adaptor for the film you are scanning, place it in the main tray making sure the 4 pins of the film adaptor are properly inserted into the 4 holes of the main tray until it is lying flat. Close the main tray, ensure it locks with a “click”.

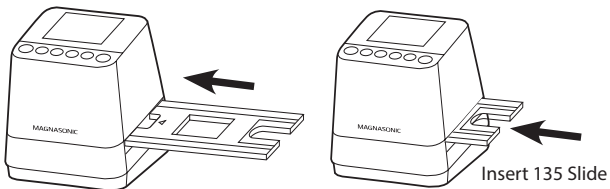
135 Slide Holder/Main Holder



135 Film Adaptor



4. Insert the main tray (with selected film adapter) into the scanner as shown below. Insert the main tray from the right side of the film scanner. The tray is inserted with the arrow side first.




5. You can now insert the appropriate film into the main tray. The image should now be showing on the LCD screen.

## Capturing an Image









To capture that image, press the  button. The image will be saved on the film scanner's internal memory automatically.

## Adjusting Image Brightness and Color

1. The brightness and color are preset automatically. If you would like to adjust these, press the  button. You will then see the following icons on the screen:






*NOTE: Any film/slides that have already been scanned and saved before adjusting the brightness or color, will not be affected. Only film/slides that are scanned after brightness and color changes are made will be affected.*


2. Press the  button to select one of the items you want to adjust (black & white, red, green, or blue).
3. Press the  button to confirm your selection.
4. You will now see a scale on the bottom of the screen. Press the  and  buttons to increase or decrease the value. Press the  button to confirm your adjustment.
5. Press the  button once more to scan the adjusted picture.
6. If you would like to reset the adjusted colors to their original default settings, press the  button and select the  icon.

*NOTE: Any adjusted RGB settings will be saved even after turning off the scanner.*

## Viewing Saved Images

To see your captured images directly on the film scanner press the  button. Press the  and  buttons to go forward or backward from one saved image to the next.

## Deleting Saved Images



To delete a captured image, under Playback mode, press the delete button  once. To delete all captured images, press the delete button twice.

## Formatting SD Card

While in Playback mode, pressing the delete button three times will allow you to format the SD card. If there are no images on the SD card you are not able to enter the playback/delete or format mode.



*NOTE: Formatting your SD card will delete all the files in your card. Please save your saved images to your computer before formatting your SD card.*

## Watching Saved Images From a TV Screen

1. Using the included micro USB to USB cable, connect the micro USB plug to the micro USB port on the film scanner. Connect the other end of the USB cable into the included USB wall adapter.
2. Connect your film scanner to your TV using the included TV out cable.
3. Ensure that your TV is set to the proper video input.
4. Turn on the film scanner and select “NO” when the Link to PC prompt pops up. Press the  button, select the appropriate TV system, PAL (Europe) or NTSC (North America), for your country, then press the  button. You should now be able to see your saved images directly on your TV screen. Please note the screen on your film scanner will automatically turn off while viewing images on your TV screen.

*NOTE: You may also connect the scanner to your TV via USB using the included USB cable. For proper USB connection of your TV set please refer to the instruction manual of your TV set, and treat your USB and scanner connection as a card reader.*

## Downloading Images To Your Computer

1. Connect the scanner to the computer via the included micro USB cable.
2. Turn on the power of your computer and the scanner.
3. You will see a pop up icon on the scanner's screen asking if you would like to link the scanner to your PC. Select “Yes” by pressing the  button to then press the .
4. A folder should pop up on your computer with all your scanned and saved images from your scanner. You can now save images from this folder directly onto your computer.

## FAQ / Troubleshooting

Issue	Solution
How can I get the best quality scan possible?	Ensure the film/slides are clean and that you clean the inside of the scanner with the included cleaning brush immediately before scanning.
How should I prepare the film/slides to ensure the best possible scan?	The film/slide should be free of any dust/fingerprints. This can be done with an appropriate cleaning cloth.
I've noticed a consistent spot on every slide I have scanned. Is something wrong with my scanner?	There is likely a small amount of dust inside your unit. Use the included cleaning brush 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) or the scanner's internal memory (64MB). You can then export to a computer at a time that is more convenient.

## FAQ / Troubleshooting

<p>Can I connect the scanner to any computer/laptop?</p>	<p>If using a PC, the following is required:</p> <ul style="list-style-type: none"> <li>- Pentium ® P4 1.6GHz or equivalent AMD Athlon</li> <li>- Free USB 2.0 port</li> <li>- 512 MB RAM</li> <li>- 500 MB free hard disk space</li> <li>- 1024 x 768 pixel color monitor</li> <li>- Windows® XP Service Pack II/Vista™, 32/64 bits Windows 7/Windows 8/Windows 10</li> </ul> <p>If using a Mac, the following is required:</p> <ul style="list-style-type: none"> <li>- Power PC G5 or Intel Core Duo processor recommended</li> <li>- Free USB 2.0 port</li> <li>- 768MB RAM</li> <li>- 500MB free hard disc space</li> <li>- 1024 x 768 color monitor</li> <li>- Mac 10.5 and up</li> </ul>
<p>What file format are the images saved as?</p>	<p>The files are automatically saved in JPG format.</p>
<p>Can I use this to scan raw film or do I need to develop the negatives first?</p>	<p>The scanner will work for developed film only.</p>

Can I use the film scanner to scan prints?	Slides and negatives can be scanned, however printed pictures can't be.
What type of light source does the scanner use?	The scanner uses an LED backlight. This is not a source of heat and is safe to use on all negatives/film types.
Why do my scanned images look orange?	If your scanned images are not the correct color, you can easily set different exposure compensation (EV, R, G, B) until it is the correct color. See page 9 of the manual for instructions on how to do so.

## Specifications

Image Sensor	1/2.3" 14 Mega CMOS Sensor (23MP via interpolation)
Preview and Review	2.4" Color LCD Display
Lens Specification	F/No. 3.5, 5 elements lens
Color Balance	Automatic
Exposure Control	Automatic & Manual Adjustment
Support Film Size Auto Cropping	135 negative & slide (3:2) 110 negative (4:3) 126 negative (1:1)
Support Film Type Auto Converting	135 slide Color negative film (135, 110, & 126) Black & white negative film
Focusing	Fixed Focus
EV Adjustment	Yes, + - 2.0 EV
RGB Color Adjustment	Yes
PC System Requirements	<ul style="list-style-type: none"> <li>- Pentium® P4 1.6GHz or equivalent AMD Athlon</li> <li>- Free USB 2.0 port</li> <li>- 512MB RAM</li> <li>- 500MB free hard disk space</li> <li>- 1024 x 768 pixel color monitor</li> <li>- Windows® XP Service Pack II/ Vista™, 32/64 bits Windows 7/ Windows 8/Windows 10"</li> </ul>



## Specifications

Mac System Requirements	<ul style="list-style-type: none"> <li>- Power PC G5 or Intel Core Duo processor recommended</li> <li>- Free USB 2.0 port</li> <li>- 768MB RAM</li> <li>- 500MB free hard disk space</li> <li>- 1024 x 768 color monitor</li> <li>- Mac 10.5 and up"</li> </ul>
Image Format	135 negative & slide (3:2) 110 negative (4:3) 126 negative (1:1)
Light Source	White LED panel
USB Connector	Micro USB 2.0
TV System	NTSC and PAL
Internal Memory	64MB
Power Supply	5V/1A power adapter
Dimensions	3.98 (H) x 3.78 (W) x 4.80 (L) inches
Weight	0.49 lbs
Product Certifications	FCC, ICES, cETL/ETL

## **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:

- A. 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.
- B. Any Magnasonic product tampered with, modified, adjusted or repaired by any party other than Magnasonic.
- C. Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.

- D. Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
- E. Any product received without appropriate model, serial number, and CSA/cUL/cULus/cETL/cETLus markings.
- F. Any products used for rental or commercial purposes.
- G. Any installation, setup and/or programming charges.

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/)

# **Important Safety Instructions**

## **Getting Started**

1. Read all warnings below and follow all instructions within this manual.
2. Only use films of standard size.
3. Only use attachments/accessories specified by the manufacturer.
4. To save energy, the scanner will automatically shut down after 30 minutes of inactivity. Press the power button to turn back on.
5. This film scanner may become slightly warm during use. This does not indicate a malfunction.

## **Safety Alerts**

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.

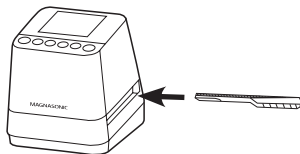
## **Best Practices for Safe Use**

1. Unwind and straighten the USB cord before use.
2. Check that the power voltage stated on the rating label corresponds to your local electricity supply.

3. Unplug the power adapter from the wall when the product is unused for a long period of time and during thunderstorms.
4. Do not use this product near water.
5. Do not immerse this product, the power cord, or any accessories in water or any other liquid.
6. Do not block any ventilation openings. Install in accordance to the manufacturer's instructions.
7. Do not place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Do not attempt to service or disassemble this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards.

## **Cleaning and Care**

1. Please make sure the scanner is clean before using.
2. Do not use liquid cleaners.
3. Clean outside of the product only with a dry cloth.
4. Do not clean the inside of this product with anything except for the included cleaning brush.
5. To clean with the included cleaning brush, insert the soft end of the brush into the film/slide holder slot. Carefully push the brush around inside to get rid of any dust or debris that may be on the lens.



## 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 least five seconds, and then turn it back on again.

## Notes

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