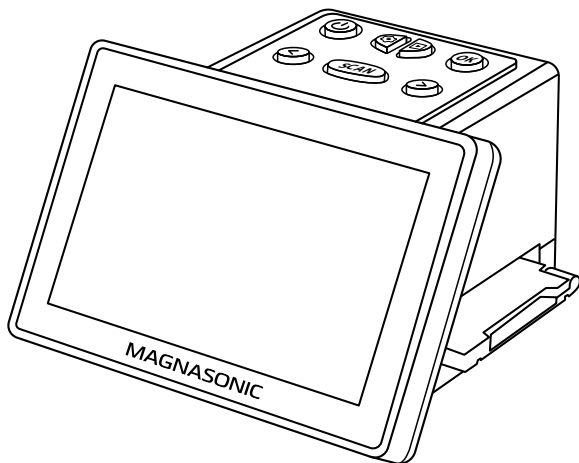


MAGNASONIC

FS70 User Manual v1.0

All-In-One 25MP Film Scanner with HDMI



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

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

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



www.youtube.com/magnasonic



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Don't forget to register your product with us!
Magnasonic.com/registration

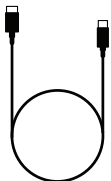
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What's Included



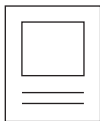
Film Scanner



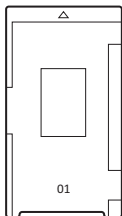
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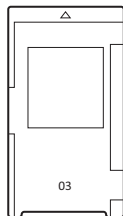
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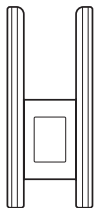
User Manual



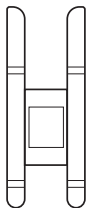
Negative Adapter



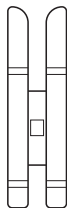
Slide Adapter



110 Slide Insert



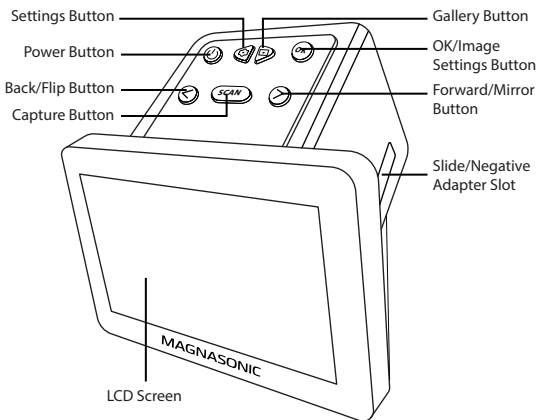
110 Negative Insert



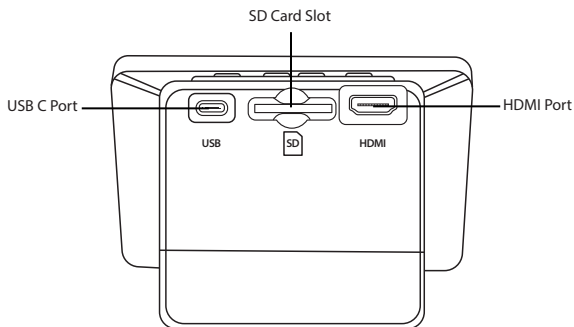
Super 8/8mm Insert

Product Information

Front



Back



Operating Instructions

Powering on Your Film Scanner

1. Connect the USB cable to the USB port on the film scanner.
2. Connect the other end of the USB cable into a USB wall adapter (not included) or USB power source (5V 1A).
3. Press and hold the Power button on the scanner to turn it on.

Note: The film scanner will automatically shut off after 10 minutes of inactivity.

Changing the Language

1. Press the Settings button to open the Main Menu and use the < and > buttons to select the LANGUAGE option.
2. Press OK to open the language menu.
3. Use the < and > buttons to scroll between the available selections.
 - English - Français - Japanese
 - Español - Deutsch - Chinese
4. Press OK to select the language.

Date and Time Setting

1. On the Main Menu, go to DATE AND TIME and press OK.
2. Use the < and > buttons to select the correct year.
3. Use the OK button to move to the next setting. The order of the settings is Year/Month/Day/Hour/Minutes/Seconds.

Note: Hour is displayed as a 24 clock. Selecting 12 and above would set the Hour to PM.

Selecting Scan Resolution

1. On the Main Menu, go to RESOLUTION and press OK.
2. Use the < and > buttons to select 13MP or 25MP and press OK to confirm.

Prepping Your Film/Slides

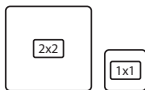
1. Open the appropriate slide/film adapter and insert your slide/film. Each adapter is labelled to identify it. If you are not certain of your slide/film type, refer to the Slide Type and Film Type images below.
2. Ensure the slide/film is facing the correct way and is not bent.
3. Close the slide or film adapter and press the edges so that it locks into place.

IMPORTANT: *The quality of the original slide/film will impact the quality of the scanned image.*

Slide Types



35mm Slide (135)



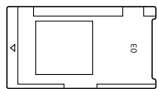
110 Slide



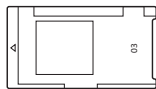
126 Slide

Slide Adapters

Tip: When inserting slides the glossy side should face up.



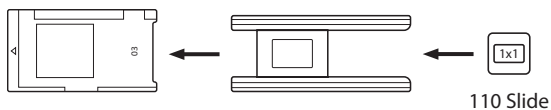
35mm Slide (135)



126 Slide

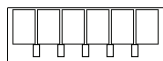


110 Slide

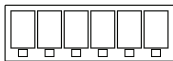


Film Types

8mm/Super 8 film types are under Slides in the Film Type menu and require the Negative Adapter for scanning.

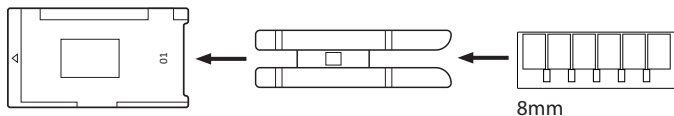


8mm

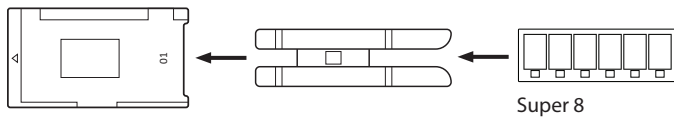


Super 8

Film Adapters

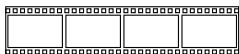


8mm

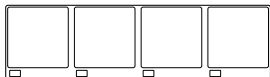


Super 8

Negative Types



135 Negative (35mm)

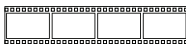
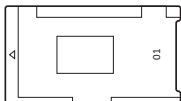


126 Negative

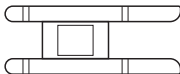
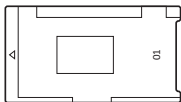


110 Negative

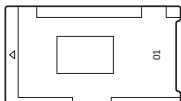
Negative Adapters



135 Negative (35mm)



110 Negative



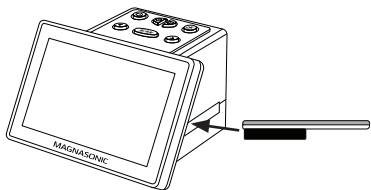
126 Negative

Preparing the Film Scanner

1. Press and hold the Power button on the scanner to turn it on.
2. Insert the prepared film or slide adapter into the slot on the right side of the film scanner.
3. In the Main Menu use the arrow keys to highlight the FILM TYPE option and press the OK button to select it.
4. Use the > arrow key to cycle through Negatives, Slides, or B&W. Press the OK button to select it.
5. The next screen will show the different types of your selection. Use the > arrow key to select the correct type and press the OK button.

Cleaning and Care

Use the included cleaning brush to ensure there is no dust or debris on the lens. Insert the soft end of the brush, face down, 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.



Using an SD Card

Note: This scanner has 64MB of built-in memory for saving scanned images. This film scanner will also accept SD, SDHC, and SDXC cards with a maximum of 128GB for extra memory. If you are using a 128GB SD card, it may need to be formatted before using for the first time. Please see below for formatting instructions.

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

Formatting Your SD Card

WARNING: Formatting your SD card will delete all files stored on the SD card. Download your files from your SD card to your computer before formatting.

1. In the Main Menu, go to FORMAT SD. Press the OK button.
2. When prompted if you would like to format the SD, use the < button to select "Yes". Press the OK button to begin formatting the SD card.

Scanning Your Images

1. Press the Scan button to enter Capture mode.
2. You should now see your film or slide image on the screen and the corresponding film/slide type is listed at the top right corner.

Note: Image on screen does not reflect scanned image quality.

3. To adjust Brightness or Color, press the OK button. Use the left/right arrows to move between Brightness (EV), Red (R), Green (G), or Blue (B). Press the OK button to adjust them individually.
4. Once all settings are correct, press the SCAN button to return.
5. You can also flip or mirror your image before scanning by pressing the < or > buttons.

< – Flip > – Mirror

6. Once ready, press the SCAN button to capture and save your image to the internal memory or SD card if one is inserted. The FS70 cannot scan directly to a computer.
7. If you have multiple slides/negatives you can push/pull them through the adapter without removing it. See image below for reference.



Note: When inserting film/negative strips use caution to ensure they are not bent or damaged.

Viewing Your Scanned Images

1. To view your saved images, press the GALLERY button.
2. Your images will play automatically in Slideshow mode.
3. To manually review your saved images and stop Slideshow mode, press the OK button.
4. Use the left and right buttons to scroll through each saved image.
5. Press the OK button again to open the Gallery options. You can choose to either go back to Slideshow mode, delete the image, or return to the Main Menu.

Transferring Images to Your Computer

IMPORTANT: *The film scanner cannot scan directly to a computer. Scanning must be completed on the film scanner.*

1. Ensure your computer is powered on.
2. Connect the film scanner to your computer via the included USB cable.
3. Power on the film scanner.
4. In the film scanner menu, select USB UPLOAD.
5. A new folder will appear on your computer. Your saved images can be found here. You can now move these images from your scanner directly onto your computer.

Watching Saved Images from a TV Screen

1. Turn on the film scanner.
2. Connect an HDMI cable (not included) to the HDMI port on the back of the film scanner.
3. Connect the other end of the cable into an HDMI input on your TV.

Note: When you connect the film scanner to your TV, the scanner's LCD screen will turn off automatically.

4. Ensure that your TV is set to the proper input/video source.
5. You should now see the film scanner's screen on your TV screen.

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. See pg. 10 for instructions on how to use the cleaning brush.
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. See pg. 10 for instructions on how to use the cleaning brush.
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 128GB) or the scanner's internal memory (64MB). You can then export to a computer at a time that is more convenient.
What file format are the images saved as?	The files are automatically saved in JPEG format.
The scanner screen is black but it has power.	Ensure an HDMI cable is not connected to the back of the film scanner. Confirm the USB power source is 5V 1A and test with another USB power source.

Issue	Solution
Can I use this to scan raw film or do I need to develop the negatives first?	The scanner will work for developed film only.
I cannot see all my images on the computer.	If an SD Card is inserted your computer will only see images saved on the SD Card. The SD Card must be removed to see images saved on the internal storage.
Where can I recycle my old slides, negatives, film?	Older film and photos can contain chemicals that make them difficult to recycle. For proper recycling/disposal information please consult with your local recycling company.
My slides/negatives scanned images have faded colors.	Over time slides and negatives can degrade and the colors fade. Ensure your slides/negatives are clean and use the color adjustment options when scanning.
The colors in my scanned images are reversed/negative.	Change the film type in the menu to Negative to scan properly.
What does the error "ERROR: MEMORY FULL" mean?	This means that the internal memory or SD Card is full. See pg. 11 for formatting the storage to delete all photos and clear space. It is recommended to use an SD Card when scanning multiple photos.

Specifications

Image Sensor	13 Mega CMOS sensor
Supported Film Type	35mm/126/110/Super 8 film & 135/126/110 slides <i>*Note: This film scanner does not support 127/120/220 slides or 116/127 film</i>
Resolution	13 Megapixels/25 Megapixels (interpolation)
Picture Aspect Ratio	3:2
Internal Memory	64MB
External Memory Card	SD card up to 128GB
Power Input	DC 5V 1A
Dimensions	5.20 (L) x 5.35 (W) x 3.82 (H) inches
Weight	1.04 lbs (474 g)

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.

HDMI Information



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. LLC in the United States and other countries.

Magnasonic® Warranty

Thank you for choosing Magnasonic! We guarantee your investment in our products is a solid one. Our products come with a complete one-year parts and labor warranty. High performance components combined with quality craftsmanship allow us to maintain the highest possible production standards. All items are guaranteed against defects in materials and craftsmanship.

Magnasonic has outstanding quality control; if something should go wrong with any of our products, we will repair it free of charge within the warranty period. If the product cannot be repaired, we will replace the product. In the event that Magnasonic replaces a product under warranty, the replacement would only carry the original warranty from the original date of purchase.

Warranty Exclusions

Magnasonic products are warranted for parts and labor for one year from date of original purchase, and are subject to the terms and conditions of the warranty. Any refurbished products that are discontinued hold a 90 day warranty from the date of original purchase. Magnasonic warranties are valid for the original owner and are non-transferable.

- 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 an appropriate model and serial number.
- Any products used for rental or commercial purposes.
- Any installation, set up 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.

To Obtain Warranty Service

Should your product require warranty service, please contact us at www.magnasonic.com/contact to set up a Return Authorization. Products returned without a valid Return Authorization number will be refused.

Magnasonic products must be returned in their original packaging. Our products are packaged specially to protect them from any damage during shipping, and without this packaging the return shipment could get damaged.

This warranty does not cover the shipping cost, insurance, or any other incidental charges. Products shipped for warranty service must be pre-paid by the customer, and Magnasonic will cover the cost to ship the repaired or replaced product back to the customer.