



4-in-1

F2D-Super Film to Digital Converter

User Manual

v1.0

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Introduction

Thank you for purchasing **Wolverine F2D-Super Film to Digital Converter**. You can take stacks of film and convert them into digital images to preserve them forever. Wolverine has created a simple-to-use device to convert your film into high mega pixel digital images in seconds. No computer or software is needed. Plug the F2D-Super into an outlet or a USB port; all images are saved to memory or optional SD/SDHC memory card. The F2D-Super can be connected with your Windows PCs or Mac computer system to upload converted and saved digital images through USB ports.

Before Using F2D-Super

This section provides important safety information that you should read before using your F2D-Super.

- Do not drop or handle too aggressively as it may cause damage to the device.
- Do not allow the device to come into contact with water or other liquids. In the event that water or other liquids enter the interior,

immediately turn off the device. Continued use of the device may result in fire or electric shock.

- Do not handle the device with wet hands. Doing so may cause electric shock and damages to the unit.
- Do not place the device close to any equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunction or data corruption.
- Do not expose the device to extreme temperatures, humidity or vibrations, which may cause damages to the device.
- Do not open the outer casing. This unit does not require batteries or contain user serviceable parts.
- Do not move or disconnect the device from the computer while the device is reading/writing data. This may cause damages to the data and/or the device.
- Under no circumstances should user try to repair the device. Doing so may cause electric shock and void the warranty.
- Warranty will be voided if the device is mishandled. Please take care in handling the device. Wolverine Data is not responsible for

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consequential damages, including loss of data. Always back up all data. For full warranty statement see the end of this manual.

- Wolverine Data has no obligation to repair, replace or issue refunds without a Return Merchandise Authorization (RMA) number and the original purchase receipt of the defective product.
- Repairs or replacement service will not be offered to products that were misused, scratched, repaired without authorization, or any other reasons beyond the range of intended use.
- Replacement product may be either new or refurbished, provided that its functions are at least equal to that of the product being replaced.
- Wolverine Data is not responsible for any data stored on the returned product, please backup any data prior to ship back the unit.
- All out of warranty repairs are subjected to repair fee. Please contact your dealer or Wolverine Data for current charges.

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Having Difficulty Using This Product?

Please try the following options:

- Call us at 949-458-9888 M-F 9:00-5:00 Pacific Time
- Visit www.wolverinedata.com/support to find the latest documentation and other help tips
- E-mail or write to our technical support staff at support@wolverinedata.com or our address: 9939 Muirlands Blvd. Irvine, CA 92618

Package Contents

F2D-Super converter, 35 mm negative adapter, 35 mm slide adapter, 110 negative insert, Super 8 film insert, USB power adapter, USB cable, cleaning brush, user manual.

Please call us at **949-458-9888** or visit **www.wolverinedata.com** to order extra adapters, inserts, or optional accessories, SD memory card, TV-out cable.

Go to **www.wolverinedata.com** to join our Mailing List to receive our exclusive coupon offers.

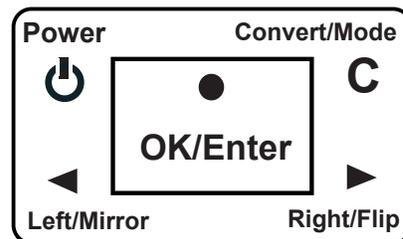
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Functions of Keys

Press the corner of the button plate to activate the functions.

- **Power:** Power on/off
- **Left/Mirror and Right/Flip:**
 1. Highlight the selection to left/up or right/down
 2. Mirror or Flip image in "Convert" mode
- **Convert/Mode:**
 1. Convert film to digital image in "Convert" mode
 2. **Press key 2 times to go back to Home menu/Mode change**
- **OK/Enter key:**

Confirm and execute the selection



Connect F2D-Super to TV

Plug the 3.5 mm end of the video-out cable (not included) to the back of F2D-Super and RCA end to TV video-in connector to view images on TV screen. The viewer of the F2D-Super will turn dark, menu and images will appear only on TV screen.



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Getting Started

1. Attach Power

Use included cable and power adapter to provide power, or plug cable to computer USB port directly.



USB port

2. Use Built-in Memory

F2D-Super has built-in memory that stores up to 35 ~ 40 digital images. After power on, "No card" will appear on the viewer for 3 seconds if optional memory card is not inserted.

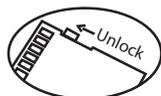
3. Use Optional SD/SDHC Memory Card

Do not use MicroSD memory card with card adapter on F2D-Super. It could freeze the device. Insert a SD/SDHC memory card before power on the device.

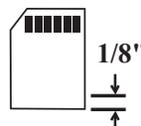
A new memory card or an used camera card should be formatted for use with the F2D-Super. Ensure the card is unlocked and **gold fingers are oriented facing up** when inserted. Gently insert it into the card slot until it clicks.

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Each 1 GB of SD/SDHC memory holds between 500-700 digital images. Do not force the card into F2D as it may damage the card reader or the card, which neither is covered under warranty.



Unlock the card



1. Gold contacts face up
2. Push in until clicks (1/8" remains)

4. Format/Delete All Internal Memory or the SD/SDHC Card

This function formats/deletes all files stored in the internal memory or an inserted SD/SDHC memory card.

1. Turn power on, press **Right** key to select **Delete All** then press **OK**.
2. Press **Left** key to highlight **YES** then press **OK**.

5. Mode Selection

F2D-Super has 6 modes and are listed below. Press **Left** or **Right** keys to change the mode then press **OK/Enter** key to execute the selection. You can always press **Mode** key to bring back the previous menu or press **Mode** key twice to go back to **Home** menu (start menu).

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- **Film Type** - Selects type of film to convert, refer to **Film Type Table** on page 9
- **Delete All** - Deletes all files in the internal memory or the inserted SD/SDHC card
- **Convert** - Converts film to digital image
- **Playback** - Reviews all converted images stored in memory
- **USB MSDC** - Communicates with PC or Mac to upload converted images files to a computer
- **Language** - Sets menu in English or Japanese

6. Set Film Type

Ensure the **Film Type** setting is correct, or you will see X-ray-like image on the viewer. Refer to **File Type Table** on page 9. The film type setting will remain until changed even when F2D is powered off.

1. At **Film Type** menu, press **OK/Enter** key.
2. Press **Left** or **Right** key to highlight **Color Negatives or Slides Positive or B&W Negative** then press **OK** key to select.
3. Press **Left** or **Right** key to highlight the type of film then press **OK** .

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File Type Table

Film Type	Format	Adapter or/and Insert to Use	Film Width
Color <i>Negative</i>	110	Negative Adapter & 110 Insert	16 mm
	126KPK	<i>Negative Adapter only</i>	26 mm
	<i>135</i>		<i>35 mm</i>
<i>Slide</i> Positive	Super 8	Negative Adapter & Super 8 Insert	8 mm
	110	<i>Slide Adapter only</i>	16 mm
	126KPK		26 mm
	<i>135</i>		<i>35 mm</i>
B&W (black & white)	110	Negative Adapter & 110 Insert	16 mm
	126KPK	Negative Adapter only	26 mm
	135		35 mm

** Popular types in Bold & Italic*

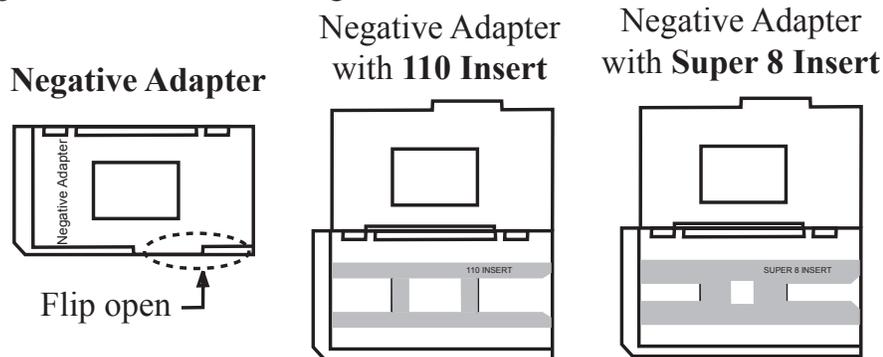
7. Select Proper Adapter or/and Insert

Select proper Adapter or/and Insert to convert your film, refer to **File type table** above. If 110 Insert or Super 8 Insert is selected,

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flip open the Negative Adapter then place appropriate Insert accordingly (see diagram below), and snap close the adapter tightly to avoid jamming when inside the F2D-Super.

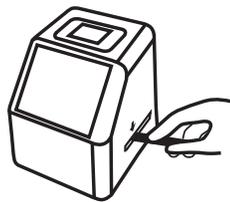
Warning: Using improper Adapter or Insert will result cropped image or black areas on image.



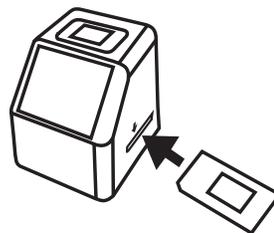
8. Insert Proper Adapter into Slot

For the best results, use included cleaning brush with felt side down to wipe dust off the light table gently before each use.

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Insert film Adapter into the right side slot and push in Adapter from **right to left side**; improper direction would damage F2D-Super.



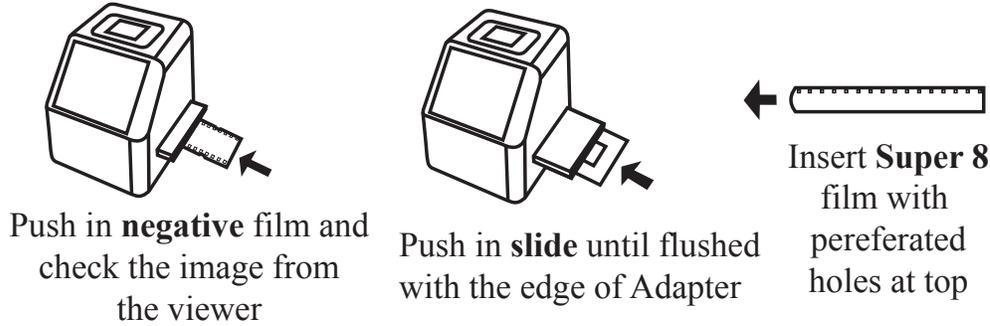
Insert and push in **Negative or Slide Adapter** until stopped

9. Prepare Film and Feed the Film into Adapter

Use fine soft cloth or compressed air (not included) to clean the film before putting them into the Adapter. Gently feed the film from the right side of Adapter. Feed **negatives or slides** with **shiny side up**; feed **Super 8** film with **perferated holes at topside**, refer to diagrams on page 12.

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Ensure the **Film Type** setting is correct, or you will see X-ray-like image on the viewer. The film type setting will remain until changed.



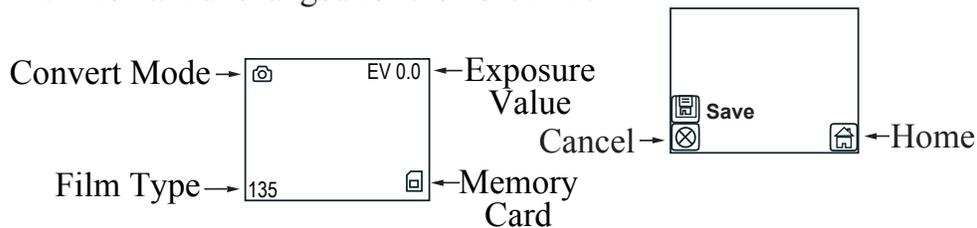
10. Edit Image Orientation

At Convert Mode, press **Mirror** key to mirror the image left to right, or **Flip** key to flip the image upside down. You can also later rotate at Playback mode.

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11. Change Image EV (Exposure Value) and RGB Color

At Convert Mode, press **OK/Enter** key to change **EV** (Exposure Value), and **R** (red), **G** (green), and **B** (blue) color components. The default value of EV is 0.0, change to positive (+) means brighter or negative (-) darker. You can adjust RGB color to enhance the image quality of the film. Press **Left or Right** key to adjust the value then press **Enter** key to select it. The edited value will remain unchanged for the next film.



12. Convert Film to Digital File

1. At Convert Mode, press **Convert** key to convert image to digital.

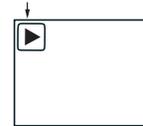
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2. Press **OK** key to save the converted digital image to memory. Or press **Left** or **Right** key to **Cancel** (not saved).
 3. Feed another slide or push the negative film to left to convert the next film.
- *Note:** "FULL" icon on screen means the memory is full. Upload the converted digital files to a computer, refer to item 14 on page 16. Then delete all files from the memory of F2D-Super.

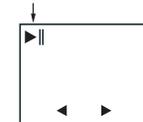
13. Playback and Edit Converted Image Files

1. Press **Mode** key twice to go back to **Home** menu.
2. Press **Left** or **Right** key to highlight "**Playback**".
3. Press **OK/Enter** key to playback saved images on the viewer at 2 second intervals.
4. Press **OK/Enter** key to pause slide show.

Playback Mode

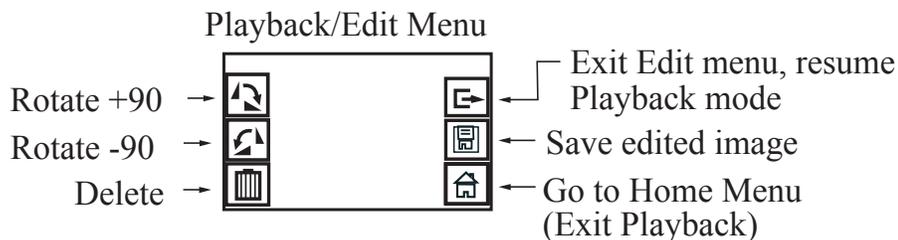


Playback in Pause



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5. Press **Left/Right** key to advance image forward ◀ or backward ▶ manually.
6. Press **OK/Enter** key one more time to go to **Edit** menu.
7. In the **Edit** menu, highlight **Exit**, then press **OK/Enter** key to resume **Playback**.
8. After editing the image, select **Save** icon to save edited image. The edited image will replace the original image in memory.
9. Highlight **Home** icon, press **OK/Enter** key to exit **Playback** mode, or press **Convert** key to go to Home menu.



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14. Connect F2D-Super to Computer to Upload Image Files

Plug small end of the USB cable to F2D-Super and the big end to USB port on the computer.

Insert SD/SDHC memory card if not using the internal memory.

Power on F2D-Super.

Press **Left/Right** key to highlight "USB MSDC".

Press **OK/Enter** key to activate the USB mode.



15. Upload Image Files to PC and Delete the Uploaded Files

After the USB mode is activated, your computer will recognize the F2D-Super as a **Removable Disk**. Copy/load image files to a

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different folder each time to avoid files superseding onto your computer's hard drive. The converted digital image files are located at **Removable Disk** under the folder **DCIM/100COACH** with sequential alpha-numerical file names, PICT0001.JPG, PICT0002.JPG , PICT0003.JPG etc.

You can delete the image files from the internal memory or SD/SDHC memory card by drag and drop the **DCIM folder** to the **Recycle Bin** or use the "**Delete All**" function on F2D-Super to delete the image files.

Technical Support

For technical support, warranty service, or repair service, please contact Wolverine Data at Support@wolverinedata.com or call 949-458-9888 M-F 9:00 - 5:00 at Pacific Time

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Specifications

Lens: F/3.48, f=5.12

LCD:2.4 inch LTPS LCD Display

External memory: SD/SDHC card

Exposure: Auto

Color balance: Auto

Resolution: 20 MP

Data conversion: 24 bits per color channel

Convert method: Single pass

Light source: backlight

Power: Powered from USB/5V adapter

Interface: USB 2.0

Dimension: 103 x 90.5 x 104 mm

Weight: 215 g

Language: English and Japanese

Caution

This device complies with part 15 of the FCC Rules.

Changes of modifications not expressly approved by Wolverine Data could void the user's authority to operate the equipment.

One-Year Limited Warranty (United States Only)

Wolverine Data manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry-standard practices. Wolverine Data warrants that the hardware products it manufactures will be free from defects in materials and workmanship. The limited warranty term is one year beginning on the date of invoice, as further described in the following text.

Damage due to shipping the product is covered under this limited warranty. Otherwise, this limited warranty does not cover damage due to external causes, including accident, abuse, misuse, problems with electrical power, servicing not authorized by Wolverine Data, usage not in accordance with product instructions, failure to perform required preventive maintenance, and problems caused by use of parts and components not supplied by Wolverine Data.

The warranty extends only to the first consumer purchaser, and is not transferable. This limited warranty does not cover any items that are in one or more of the following

categories: software; external devices (except as specifically noted); accessories or parts added to a Wolverine Data system after the system is shipped from Wolverine Data or its resellers; accessories or parts that are not installed in the Wolverine Data factory. During the one-year period, beginning on the invoice date, Wolverine Data will repair or replace products returned to Wolverine Data's facility.

To request limited warranty service, you must contact Wolverine Data's Technical Support Services within the limited warranty period. Refer to the section titled TECHNICAL SUPPORT to find the appropriate telephone number for obtaining customer assistance. If limited warranty service is required, Wolverine Data will issue a RMA (Return Material Authorization) Number. You must ship the products back to Wolverine Data in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk of loss or damage during shipment. Wolverine Data will ship the repaired or replacement products to you freight prepaid if you use an address in the continental United States, where applicable. Shipments to other locations will be made freight collect.

To obtain service, you must include: (a) a copy of your receipt or other comparable proof of purchase; (b) a written description of the problem; (c) your address and telephone number; (d) Write the RMA number on the outside shipping packaging.

NOTE: Wolverine Data uses new and reconditioned parts made by various manufacturers in performing limited warranty repairs and building replacement products. If Wolverine Data repairs or replaces a product, its limited warranty term is not extended.

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Warranty Exclusions

Normal Wear and Tear

Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

Abuse and Misuse

Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the products or accessories for commercial purposes or subjecting the product or accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Wolverine Data, are excluded from coverage.

Use of Non-Wolverine Converter's Accessories

Defects or damage that results from the use of Non-Wolverine Converter's accessories or other peripheral equipment are excluded from coverage.

Unauthorized Service or Modification

Defects or damages resulting from service, testing, adjustment, instillation, maintenance, alteration, or modification in any way by someone other than Wolverine Data are excluded from coverage.

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Altered Products

Product or accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Wolverine Data parts or accessories, are excluded from coverage.

Other Limitations

Any implied warranties, including without limitation the implied warranties of merchantability and fitness for a particular purpose, shall be limited to the duration of this limited warranty, otherwise the repair, replacement or refund as provided under this express limited warranty is the exclusive remedy of the consumer, and is provided in lieu of all other warranties, express or implied. In no event shall wolverine data be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the product, accessory or software, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or data, software or application with the ability or inability to use the product, accessories or software to the full extent these damages may be disclaimed by law. Some states (or jurisdictions) do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

Thank you for choosing Wolverine!

Having difficulty using this product?

Please try the following options:

- Call us at **949-458-9888** M-F 9:00-5:00 Pacific Time
- E-mail our technical support staff at **support@wolverinedata.com**

Quick Start

1. Attach power cord
2. Insert SD/SDHC memory card - **Optional** step
3. Turn on F2D-Super
4. Press **Left or Right** keys to select film (Negative, Slide, B&W)
5. Press **OK** to confirm the selection
6. Insert proper Adapter from right side, feed the film into the slot
7. Edit image orientation, EV and RGB if required - **Optional** step
8. Press **Convert** key to convert film to digital
9. Press **OK** key to save image
10. Feed slide or push in film, repeat steps from 7 for next Convert

Go to www.wolverinedata.com to join our Mailing List to receive our exclusive coupon offers