



F2D

35mm *Film to Digital Converter*

USER MANUAL

Version 6.10

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Before Using the F2D Converter

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

- 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 enters the interior, immediately turn off the device. Continued use of the device may result in fire or electrical shock.
- Do not handle the device with wet hands. Doing so may cause electrical 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 damage to the device.
- Do not open the outer casing. This unit does not require or have batteries.
- Do not move or disconnect the device from the computer while the device is reading/writing data. This may cause damage to the data and/or the device.
- Under no circumstances should the user try to repair the device. Doing so may cause electrical shock and void the warranty.
- Slides and Negatives media **MUST** be placed in their proper holder tray before inserting them into the F2D converter.

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- Warranty will be void if the device is mishandled. Please take care in handling the F2D. Wolverine Data is not responsible for 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, repaired without authorization, or by other reasons beyond the range of intended use.
- Products replacement may be either new or refurbished, provided that it has functionality 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 shipping the unit.
- All OUT OF WARRANTY repairs maybe subject to repair fee. Please contact your dealer or Wolverine Data for current charges.

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

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Package Contents:

- 1. F2D Converter
- 2. Negative film tray
- 3. Slide film tray
- 4. USB power adapter
- 5. USB cable
- 6. Cleaning brush
- 7. User manual

Optional parts:

- SD memory card
 - Negatives Roll Film Adapter
 - Video cable
 - Extra film trays
- *** Please visit
www.wolverinedata.com
or call us at 949-458-9888

Getting Started

This section takes you through the steps involved in setting up your F2D Converter and using it.

1. Provide Power to F2D Converter

Plug in USB cable to included power adapter to wall outlet or directly to computer USB port.

⚠ Do not tilt F2D Converter backward when cable is plugged in. It may damage connector and cause F2D Converter to malfunction.



DO NOT tilt backward

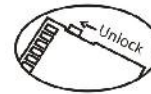
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2. Use Build-in 25 MB Memory

F2D Converter has 25 MB build-in memory. It can store approximately 25 images. F2D will save scanned files to the internal memory if SD card is not inserted.

3. Use Optional SD Memory Card

You can also use a SD card to store more scanned files. Make sure the SD card is unlocked before use, or you'll see a lock icon on the screen. **Insert the SD card with gold contacts facing up.** Push the card all the way in until it clicks.



Push white tab upward



SD card locked




Picture files will be saved to SD card if card is inserted. Format SD card before use is recommended. (see page 11 for format SD card).



⚠ Ensure the card is correctly oriented before inserting into F2D Converter. Inserting SD card backward may cause F2D Converter to fail or malfunction.

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4. Turn on F2D Converter

Press and hold power button  for 1~2 seconds to turn on F2D Converter.

5. Select Scanning Mode for Negative, Slide, or B/W

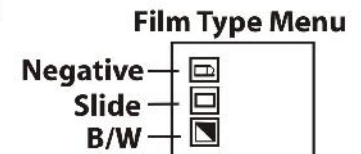
Three scanning modes (negative, slide, B/W) are available. Use **Up** button  or **Down** button  to highlight icon. Press **OK** button to confirm the selection. The default mode is for negatives. Any scanning mode will be remained until you make another change, even you turned power off. Image shown on the LCD should look like the original picture. Incorrect scanning mode setting will cause image to look like an X-ray picture.

Steps to change scanning mode:

1. Use **Down** button to highlight **Film type** icon, press **OK**.



2. Highlight the desired film type, negative, slide, B/W then press **OK** button.



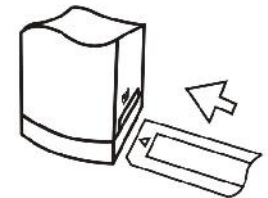
6. Clean Light Table

For best results, use included cleaning brush to wipe dust off the light table before every use.



7. Place Film into Tray

We highly recommend to use a **fine** cloth to clean your film before putting them in the tray. Open film tray and set film (place film shiny side up) into the tray properly and close it tight. Insert tray into F2D Converter from **right to left** with directional arrow facing up and pointing left.




Insert tray from right side of F2D Converter

8. Scan Film at Blinking Red Dot

- Two **optional** edit modes at blinking red dot are available before scanning image.

1. Edit EV/brightness Mode

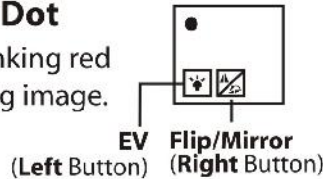
- Press **Left** button.
- Use **Up** or **Down** button to edit EV value inside light bulb icon . Positive (+) means brighter; negative (-) means darker.
- Press **OK** to confirm.

2. Edit orientation Mode

- Press **Right** button.
- Press **Left** button to mirror image up side down or press **Right** button to flip image left to right.
- Press **OK** to confirm.

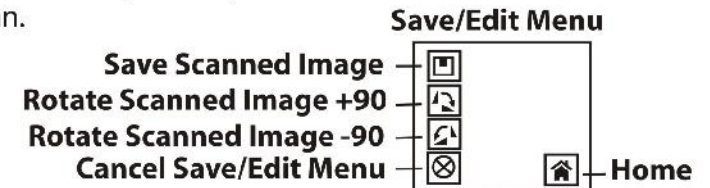
- After completed or skipped the above editing, press **COPY** button to scan image at blinking red dot. An hour glass will be shown until scanning completed.

A "**FULL**" mark means the internal memory or the SD card is full. At this point turn off F2D Converter and upload image files to computer (item 10 & 11 on pg. 9 & 10) or insert a new SD card.



9. Save Image to Build-in Memory or SD Card

When you see Save/Edit Menu, press **OK** button to **save** image to the build-in memory or the inserted SD card. Or you can rotate the scanned image by highlighting rotate icons (clockwise /counter clockwise), press OK button to confirm then save the edited image or exit the menu. Repeat step 8 and 9 to continue the next scan.



10. Connect F2D Converter to a Computer

- Use included USB cable to connect F2D to an USB port on a computer.
- Insert the SD card if you didn't use build-in memory.
- Turn on F2D Converter.
- Highlight **USB** mode, press **OK**.
- USB symbol will appear on the screen.



11. Upload Images to a Computer & Delete Files

• Windows (ME/2000/XP/Vista/7) PC:

After the USB mode is activated, the computer will recognize F2D's internal memory, or SD card, as a **Removable Drive**. Follow the computer Autoplay options to copy the images to a folder or access the Removable Drive "NO_NAME" under "My Computer" or "Computer". Images on the F2D Converter are saved under the folder **DCIM/100DVCAM** with sequential alpha numerical file names of PICT0001.JPG, PICT0002.JPG etc. Copy and paste or drag and drop image files to a location on your computer's hard drive. After checked the uploaded image files, drag and drop the DCIM folder in the **Recycle Bin** to remove the image files from F2D internal memory or the SD card.

• Apple Computer:

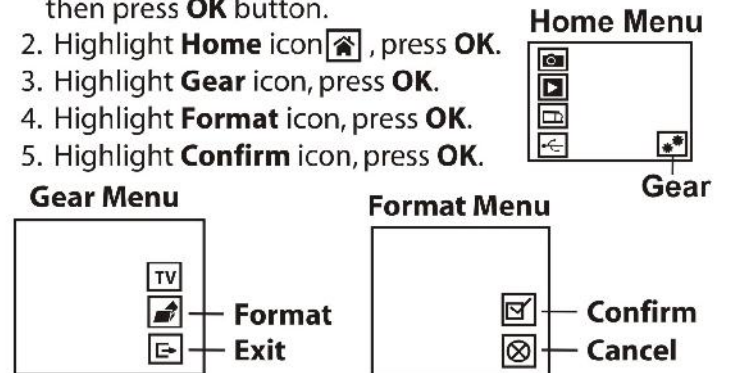
After the USB mode is activated, the F2D Converter internal memory or SD card will show up as a new Drive on the Desktop or defaults to importing images into iPhoto. After checked the uploaded image files, drag-and-drop **DCIM** folder in the **Trash Bin** to remove the

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image files from F2D internal memory or the SD card.

12. Format Build-in Memory or SD Card

1. Insert the SD card if you didn't use build-in memory. Turn on F2D Converter and wait for blinking red dot then press **OK** button.
2. Highlight **Home** icon , press **OK**.
3. Highlight **Gear** icon, press **OK**.
4. Highlight **Format** icon, press **OK**.
5. Highlight **Confirm** icon, press **OK**.



 **Please note that formatting memory will erase all data permanently.**


13. Turn Off F2D Converter

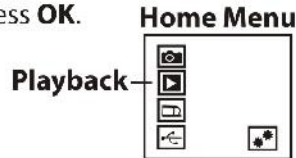
Press power button to turn off F2D Converter or **eject** (press and release) SD card out.


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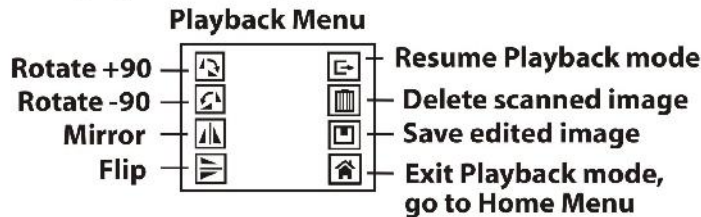
Playback and Edit Saved Pictures

F2D Converter can be used to view images saved on the build-in memory or a SD memory card.

1. Wait for **blinking red dot**, press **OK** button.
2. Highlight **Home** icon , press **OK**.
3. Highlight **Playback** icon, press **OK** button. F2D Converter will play a slide show of all images.



4. Press **OK** button to **pause** playback. 
5. Press **Up** or **Down** button to select image **manually**.
6. Press **OK** button to display Playback Menu (see below).
7. Highlight the icon, press **OK** button.

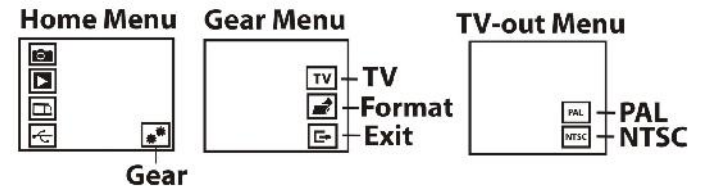


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Connect F2D Converter to TV Set

Use video-out cable to connect F2D Converter to TV to display images on TV screen. After activates TV-out, the LCD screen on F2D Converter will be shut off automatically, images will display on TV only.

1. Set TV set to aux-in mode.
2. Turn F2D Converter on.
3. Highlight **Gear** icon, press **OK** button.
4. Highlight **TV** icon, press **OK** button.
5. Highlight **NTSC** icon, press **OK** button.
6. Plug in video-out cable to F2D Converter's TV-out and TV set's video-in port



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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 Pacific Time

Specifications

Image Sensor:	1/1.8 inch, 7.3 mega pixel CMOS sensor
Lens:	F no.= 2.0, 4 Glass elements,
LCD	Color TFT LCD
Memory Slot	SD/MMC compatible
Focus Range:	Fixed focus
Exposure Control:	Automatic
Color Balance:	Automatic
Scan Quality	1,800 dpi
Data Conversion	10 bits per color channel
Scan Method	Single pass
Light Source	Back light (3 white LEDs)
Interface:	USB 2.0
USB Configuration	Mass Storage Device Class/MSDC
Power:	5V adapter, or USB power
Dimensions	3.2x3.4x7.2 -inches
Weight	1 lb
Operating Systems	Windows ME/2000/XP/Vista/7 32/64 bits, Mac OS 10 and above

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 to you 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.

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-F2D Converter's accessories. Defects or damage that results from the use of Non-F2D 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.

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.

Order optional parts:

- SD memory card
- Video/TV out cable
- Negatives Roll Film Adapter
- Extra film trays

Please visit www.wolverinedata.com or call us at **949-458-9888**










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

F2D Converter Quick Start

1. Plug in power cord (page 4).
2. Insert SD memory card until clicks (pg 5).  Inserted with gold contacts facing up
3. Press **Power** button  to turn on F2D Converter.
4. Change the mode setting for Negative or Slide or B&W (pg 6).
 - a. Press **Down**  to highlight **FILM TYPE** icon  then press **OK**.
 - b. Press **Down**  to highlight **Negative**  or **Slide**  or **B/W**  then press **OK**.
5. Place film into proper tray and insert tray into the right side tray slot (pg 7).
6. At blinking red dot, two *optional* edit modes are available:
 - a. Edit EV/brightness (pg 8) - Press **Left** and press **Up** or **Down** then **OK**.
 - b. Edit orientation (pg 8) - Press **Right** and press **Left** or **Right** then **OK**.
7. At blinking red dot, press **Copy** button to **scan** film (pg 8).
8. Press **OK** button again to **save**  image to memory (pg 9).
9. Push tray leftward at blinking red dot for next scan. Repeat step 6, 7, and 8.
10. Power off F2D Converter or eject SD card (press and release).