



F2D
35mm Film to Digital Converter

USER MANUAL

Version 5.10

Table of Contents

Before Using the F2D Converter	2
Wolverine data help phone line and email address	3
Package Contents and Optional Parts.....	4
Getting Started	4
1. Provide Power to Converter	4
2. Use Build-in 25 MB Memory	5
3. Use Optional SD Memory Card	5
4. Turn on Converter	6
5. Select/Change Scanning Mode for Negative, Slide, or B/W	6
6. Clean Light Table	7
7. Place Film into Negative Tray or Slide Tray	8
8. Scan Film at Blinking Red Dot/Press OK Button.....	8
9. Save the Scan to Build-in Memory or SD Card/Press OK Button ...	9
10. Upload Image Files to Computer	10
11. Format Build-in Memory or SD Card	11
12. Turn Off Converter/Press Power Button or Eject SD Card	11
Playback and Edit Saved Pictures	12
Connect Converter to TV Set	13
Technical Support	14
Specifications	14
One-Year Limited Warranty (United States Only)	15
F2D Converter Quick Start	Back cover

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 with wet hands. Doing so may cause electrical shock and damage 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 case. 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.

Warranty will be void if mishandled. Please take care in handling the Wolverine device. **Wolverine data is not responsible for consequential**

damages, including loss of data. Always back up all data. For full warranty statement see 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 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 a normal 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

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 Converter

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



Do not tilt backward

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

2. Use Build-in 25 MB Memory

Converter has 25 MB build-in memory. It can store approximately 25 images. Converter 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



Gold contacts
Face up




Inserted
until clicks




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 Converter. Inserting SD card backward may cause Converter to fail or malfunction.

4. Turn on Converter

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

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

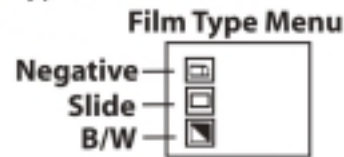
Three scanning modes (negative, slide, B/W) are available. Use **Mirror** button  or **Flip** button  to highlight icon. Use **OK** button to execute the highlight. The default mode is for negatives. Any scanning mode will be remained until you make another change, even you turned power off. Image shown 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. Wait for **Blinking red dot**, press **OK** button.
2. Highlight **HOME** icon, press **OK** button.
3. Highlight **Film type**, press **OK** button.



4. 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 into the tray properly and close it tight. If scan slides, place shining side up. Insert tray into Converter from **right to left** with directional arrow facing up and pointing left.



8. Scan Film at Blinking Red Dot

At blinking red dot, press **Flip** or **Mirror** button to rotate or translate the image if needed, then press OK button to **scan** image.



If you see a "FULL" mark, it means the internal memory or the SD card is full. At this point turn off Converter and upload image files to computer (page 9) or insert a new SD card.



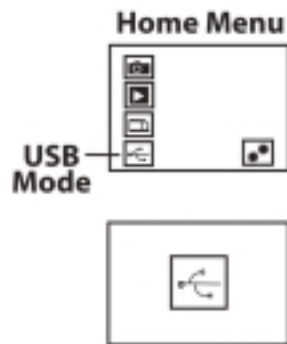
9. Save Scan to Build-in Memory or SD Card

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 execute the command then save or exit the edited image.



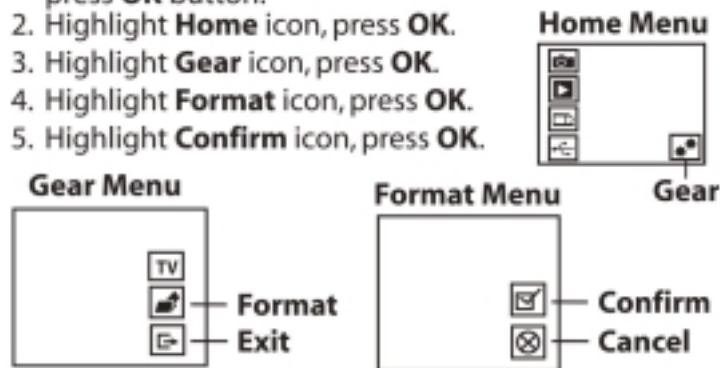
10. Upload Image Files to Computer

1. Use included USB cable to connect Converter to an USB port on the computer.
2. Insert the SD card if you didn't use build-in memory.
3. Turn on Converter.
4. Highlight **USB** mode then press OK button.
5. USB symbol will appear on Converter screen.
6. Check "My Computer" for "**NO_NAME**" removable disk on your computer.
Open **DCIM** and **100DVCAM** folders, then copy and paste image files to Pictures folder.
7. After uploaded image files to PC, you can delete image files on Converter's build-in memory or SD memory card, or reformat the memory.



11. Format Build-in Memory or SD Card

1. Insert the SD card if you didn't use build-in memory.
Turn on 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.

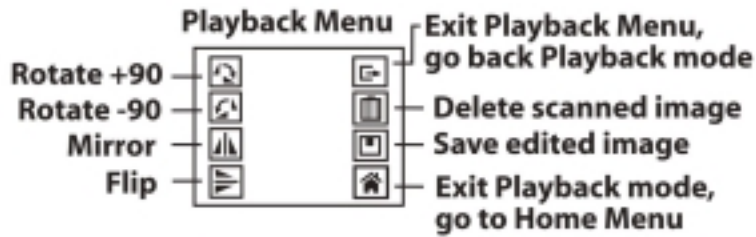
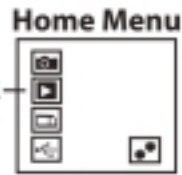
12. Turn Off Converter

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

Playback and Edit Saved Pictures

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

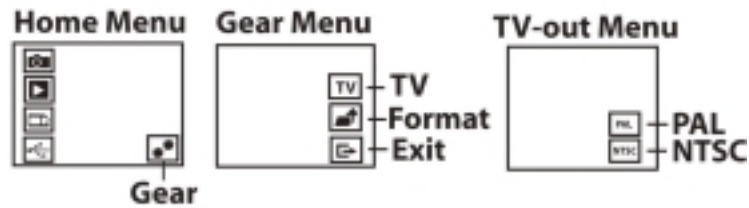
1. Wait for **blinking red dot**, press **OK** button.
2. Highlight **Home** icon, press **OK**.
3. Highlight **Playback** icon, press **OK** button. F2D Converter will play a slide show of all images.
4. Press **OK** button to pause playback. ►||
5. Press **OK** button to display **Playback Menu**.
6. Highlight the icon, press **OK** button.



Connect 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 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



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 5 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 32/64 bits, Mac OS 10 and above

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.

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 Customer Technical Support 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 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.

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.

This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state (or jurisdiction to jurisdiction). Wolverine data's responsibility for malfunctions and defects in hardware is limited to repair and replacement as set forth in this limited warranty statement. All express and implied warranties for the product, including but not limited to any implied warranties of and conditions of merchantability and fitness for a particular purpose, are limited in duration to the limited warranty period set forth above and no warranties, whether express or implied, will apply after such period. Some states (or jurisdictions) do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Wolverine data does not accept liability beyond the remedies set forth in this limited warranty statement or liability for incidental or consequential damages, including without limitation any liability for products not being available for use or for lost data or software. 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.

F2D Converter Quick Start

1. Plug in power cord to wall outlet or computer. Don't tilt Converter backward.
 2. Use build-in 25 MB memory or insert SD memory card until clicks.
 3. Press power button  to turn on Converter.
 4. To scan SLIDES, change the mode setting as followings:
 - a. Wait for Blinking red dot to appear, press OK/COPY button.
 - b. Use **Mirror** button  to highlight **HOME** icon  then press OK/COPY.
 - c. Use **Flip** button  to highlight **FILM TYPE**  then press OK/COPY.
 - d. Highlight **SLIDE** icon  then press OK/COPY.
- * Manufacturer's default scan mode is negative. No need to do mode change if scan negatives.
5. Place film into tray and insert tray from right side of Converter.
 6. Press OK/COPY button to **scan** film.
 7. Press OK/COPY button again to **save** image to memory.
 8. Push tray to your left at blinking red dot for next scan.
Repeat step 6, 7, and 8.
 9. Turn off Converter or eject SD card (press and release).

