

**db**tech®

**Film  
Scanner**



**User's Manual**

*Film to Digital Conversion*

## TABLE OF CONTENTS



# User's Manual

Read these instructions thoroughly and retain for future reference.

## Contents

---

Tips, General Information, and Precautions.....	1
Package Contents.....	2
Illustrated Parts.....	3
Loading Slides and Negative Films.....	4
General Operations.....	6
Connecting to TV.....	22
Troubleshooting.....	22
Technical Specifications.....	23

### Please Read First

- Keep it Dry** ➔ Do not expose this product to rain or moisture to preserve the life of your product.
- Caution** ➔ To prevent this risk of electric shock, Do not disassemble the film scanner.
- Ventilation** ➔ The film scanner should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug or similar surface that may block the ventilation openings.
- Heat** ➔ The unit should be situated away from sources of high heat such as radiators or stoves.  
We strongly suggest using a clean, dry, non-alcohol cotton swab to clean the glass surface periodically to produce a clear image.  
The USB cord for the device should be unplugged from the computer when the unit is left unused for a long period of time.  
Do not overload the USB connections on your computer. If you have too many devices connected to your computer, there may not be enough power for the film scanner to operate properly.
- Servicing** ➔ The user should not attempt to service the device beyond those means described in this instruction manual. All other servicing should be referred to qualified technician.
- Auto Off** ➔ For environmental protection and energy conservation, the film scanner will automatically power off in 30 minutes unless it is in PLAYBACK, MUSIC or USB Mode.

The following items should be included. Please contact your retailer if you have not received any of these items.

(1) Film scanner

(1) USB cable

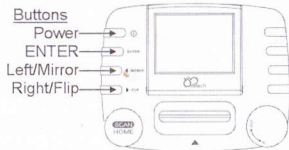
(1) Filmstrip holder

(1) Single frame film holder

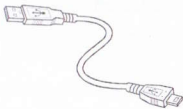
(1) Film retrieval strip

(1) AC Adapter (Please remove the adapter from the wall outlet when not in use.)

(1) User manual



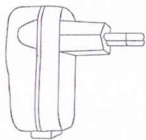
Film Scanner



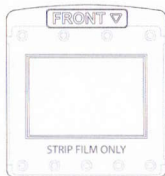
USB Cable

FILM RETRIEVAL STRIP

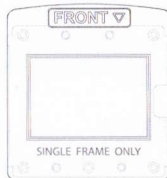
Film retrieval strip



AC Adapter



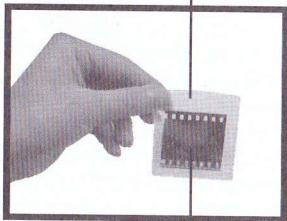
Film holder



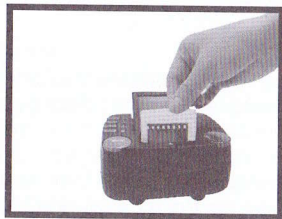
Single frame film holder

- ▶ Insert an individual film frame into the single frame film holder with the matt (dull) side facing you. Then insert the film into the holder. The image should be upright. Insert the holder into the slot from the top of the film scanner as shown.
- ▶ Using a clean, soft cloth, wipe any fingerprints or dust off the slide holder.

Single Frame Film Holder



Single Frame of Film



#### Loading slides with slide mounts

Slides that come with cardboard or plastic mounts need no film holder. Insert the mounted slide into the slot at the top of the film scanner as shown above.



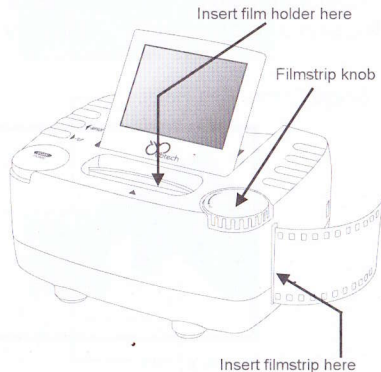
**Loading a Filmstrip (minimum of 3 frames)**

- ▶ Insert the film holder labeled “Strip Film Only” into the slot of the film scanner.
- ▶ Position the film scanner as shown and insert the filmstrip into the slot on the right side of the film scanner with the matt (dull) side facing you.
- ▶ Turn the knob counter-clockwise to feed the film into the device.
- ▶ Turn the knob clockwise to reverse the direction.

**Note:** The last frame on film the filmstrip has to be pulled out. It can't be removed from the device by turning the knob.

- ▶ In the event that filmstrips are not able to be removed from the film scanner, insert the film retrieval strip into the scanner and use it as a tool to retrieve the film out by feeding it into the scanner.

**Note:** Handle negatives with care. Any dust, scratches or fingerprints will show up on your saved images. If possible use cotton gloves when handling negatives. It is recommended to use compressed air to remove any dust on the negatives. This is not included with the film scanner but can be purchased from an office or electronics supply retailer.



## Quick Start Instructions

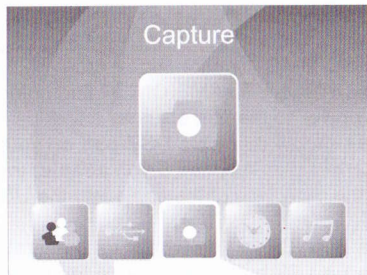
1. Insert an SD/MMC (Secure Digital Multi-Media Card) into the film scanner.
2. Insert the "SINGLE FRAME ONLY" film holder with its single film frame into the film scanner.
2. Connect power to the film scanner either by inserting the supplied USB cable,
  - (1) into an available USB port on your PC or,
  - (2) into the supplied 5-volt adapter inserted into a 120-volt wall receptacle.
3. Connect the other end of the cable into the USB receptacle located on the right side of the scanner.
4. Press the **POWER** button to turn on the film scanner.
5. Press the **ENTER** button to activate the Live View Mode where you can view the film frame.
6. Press the **ENTER** button again to view the "Film types" menu.
7. Press **ENTER** again to display the type of film you inserted into the scanner.
8. Press the **LEFT** button to cycle through three film categories: (1) "Negatives Film" [color negative film], (2) "B&W" [black & white negatives], (3) "Slides" [positive color slides].
9. When the correct film type is displayed, press **ENTER** to confirm your choice.
10. Press the **SCAN** button to capture the image.
11. **Important!** Once the image is captured, press the **ENTER** button to save the image onto the SD card.
12. When you finish scanning and capturing, **remove the SD card and view the images on your computer.**
13. **Summary: While your image is displayed on the screen, press the SCAN button to scan the image and then press the ENTER button to save the image.**



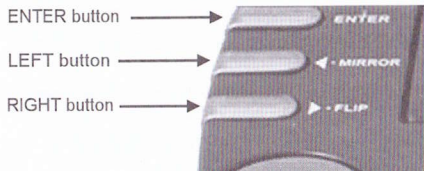
**Main Menu**

If at any time you want to get to the Main Menu, press the Home/Scan button twice.

The screen shown to the right will appear.

**Mode Selection**

To select a mode, use the Left or Right button to bring the desired icon and its name to the center of the screen. To choose the mode displayed at the center of the screen, press the ENTER button.



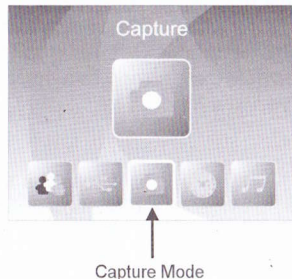
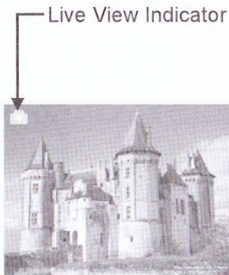
**NOTE:** There are six mode topics in the Main Menu (see list). Five appear at the bottom of the screen, but as you press the LEFT or RIGHT Button, the icons will move horizontally across the screen.

List of  
Mode Selections

1. Language mode
2. USB mode
3. Capture mode
4. Clock mode
5. Music mode
6. Play mode

### Capture Mode

Press the Power button to turn on the film scanner. After the welcome page, the above screen will display for 5 seconds. You can press the ENTER button to jump right to the Capture Mode or wait for the the full 5 seconds for the system to automatically enter the Capture Mode. Once in the Capture Mode, you'll be able to view your image on the display screen in the Live Mode.



Once you enter the capture mode, there will be an indicator on left top corner representing the Live View Mode. When the film holder is inserted into the slot, the image always shows the positive image according to the defined film type (When power is first applied, the film type defaults to (color) negative film).

Reconfirm the film position on the display before pressing the SCAN button. Press the SCAN button. Then, press the ENTER button to save the image.

**Capture: Mirror/Flip Keys**

If any image requires mirroring or flipping before capture, press the LEFT or RIGHT buttons to access the Mirror/Flip functions; the live view will be adjusted accordingly (This step corrects user error when inserting the film. Mirror and Flip buttons can only be used while in the Live View Mode.

Press the LEFT/MIRROR button to change image from left to right.



Mirror



ENTER button



MIRROR button



FLIP button



Mirror



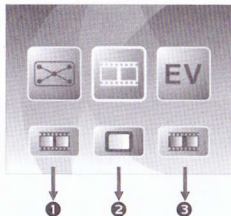
Press RIGHT/FLIP button to obtain an upside down image.

### Capture: Edit Menu

In Live View Mode, you can press the ENTER button to switch to the menu. Then press the LEFT or RIGHT button to set the Film Type, Exposure Value, or Resolution. Press SCAN button to go back to the Live View Mode.

### Film type

Press the ENTER button, then press the LEFT or RIGHT button to select the film type (1. color negative, 2. slide, or 3. B&W negative). Press the ENTER button to confirm and return to the live view mode.

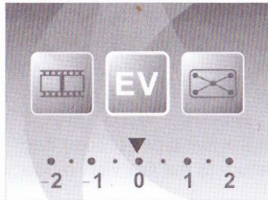


- ❶ Color Negative: select when inserting color negative film
- ❷ Slide: select when inserting a color or B&W slide
- ❸ B&W negative: select when inserting a B&W negative

## GENERAL OPERATIONS [EXPOSURE VALUE & RESOLUTION]

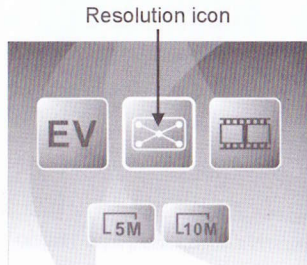
### Exposure Value (EV)

Press the ENTER button, then press the LEFT or RIGHT buttons until "EV" appears at the center of the screen. Press ENTER and a red triangle will appear above the number zero. Use the LEFT button to decrease the brightness of the image; use the RIGHT button to increase its brightness. Press the ENTER button to review the new setting in the Live View Mode. If more adjustments are needed, press the ENTER button, select the EV Mode again, and use the LEFT or RIGHT buttons to set a different value.



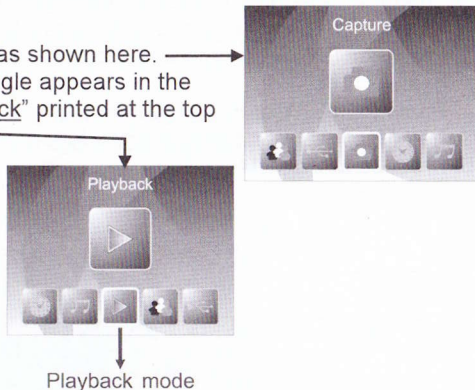
### Resolution

While viewing a picture in Live View Mode, press the ENTER button. Then press the LEFT button to select the Resolution Mode. Press ENTER to choose either of two resolution values. Next, use the LEFT or Right buttons select 5MP or 10MP quality. Lastly, press the ENTER button to set that value and return to the Live View Mode. **NOTE:** The factory default value is 10MP.



## Playback Mode

1. Press the SCAN/HOME button twice.
2. The Main Menu will appear on the screen as shown here.
3. Press the LEFT button until the green triangle appears in the center of the screen with the word "Playback" printed at the top of the screen.
4. Press the ENTER button to begin playing all the stored images.

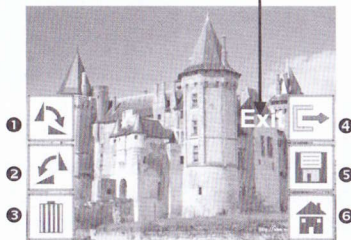


**NOTE:** If there is no SD card in the slot, the scanner will play images stored in the scanner's internal memory. If an SD card is inserted into its slot, the images displayed will be read from the SD card. If neither an SD card is inserted nor are there any of your images stored in the internal memory, the scanner will play through a factory-installed set of 20 color images.



**Playback: Edit Menu**

1. To edit a saved image, play your images following steps 1-4 on Page 12.
2. To stop at a particular image which needs editing, press the ENTER button.
3. Press the ENTER button again to bring up the editing icons as shown in the photo below.
4. Press the LEFT or RIGHT button to move through the 6 editing options. The names of their functions will appear in white lettering as you move through the selections.
5. Proceed to Page 14.



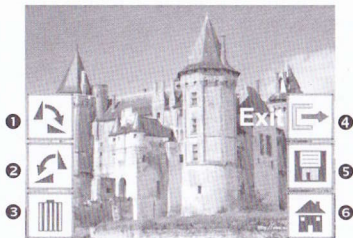
## GENERAL OPERATIONS

### [EDITING STORED IMAGES - - 6 Options]

6. Press the ENTER button to process your choice.
7. To exit the Edit Mode, choose option 4 or 6; then press ENTER.
8. The film scanner provides you with four editing features: (1) Rotate the image 90° clockwise, (2) Rotate the image 90° counter-clockwise, (3) Delete the image from memory, and (5) Save the modified image.
9. Two additional options allow you to exit the Edit mode and return to the automatic playback (Option 4) or exit the Edit mode and return to the scanner's Main menu (Option 6).

There are 6 options in the Edit mode.

- ❶ **Rotate +90:** captured image rotates 90 degrees clockwise
- ❷ **Rotate -90:** captured image rotates 90 degrees counter-clockwise
- ❸ **Delete:** delete the picture file stored in memory.



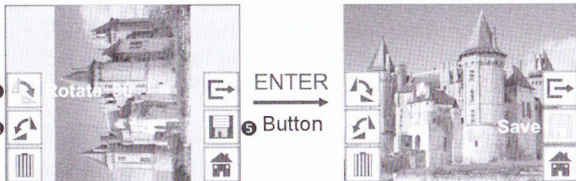
- ❹ **Exit:** return to Slide Show mode
- ❺ **Save:** saves the modified image to the internal memory or memory card
- ❻ **Home:** return to main menu

## GENERAL OPERATIONS

### [EDITING STORED IMAGES - - Rotate and Exit]

#### Playback: Rotate/Save

1. If you want to rotate an image +90 degrees, press the LEFT or RIGHT button to move the cursor to icon No. 1. 2. Press the ENTER

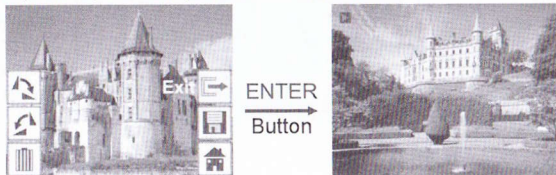


button. The image will be rotated 90 degrees clockwise and the cursor will position itself at Save (Icon No. 5).

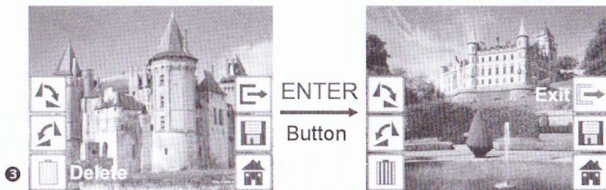
3. Press the ENTER button again to save the modified result and the next picture will be shown. For continuously rotating images by +90 degrees, move the cursor to Rotate again and press the ENTER button. **Note:** These same instructions apply to rotating images -90 degrees (Icon No. 2).

#### Playback: Exit

Once you select the Exit function in the edit menu, the display will go back to the Slide Show Mode starting with the current picture; the last picture will not be edited.



### Playback: Delete



Select the Delete icon (No. 3) using the LEFT or RIGHT button. Then press the ENTER button. The current picture will be deleted, and the next picture will be shown. The cursor will remain at the Exit icon. You can delete continuously by moving the cursor to the Delete icon again and pressing the ENTER button to confirm.

### Playback: Home

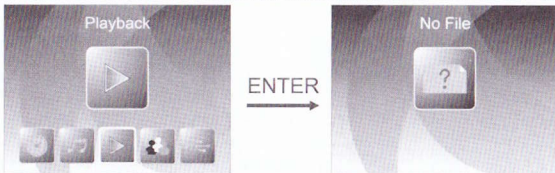


To go home, select the Home icon (No. 6) with the LEFT or RIGHT button; then press the ENTER button (or press the ENTER button for 3 seconds at any time to go back to the main menu).

## GENERAL OPERATIONS

### PLAYBACK WITH NO STORED FILES

#### Playback: No File

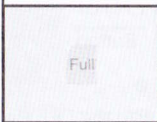


1. Follow Steps 1 to 4 on Page 12 to enter the Playback Mode.
2. If there are no images stored when entering the Playback Mode, a No File symbol will show on the screen.

This concludes all Playback functions.

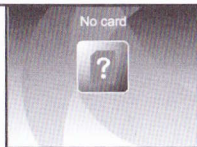
#### Memory full

Once the images in the internal memory or the memory card is full, a Memory Full icon will appear on the screen when pressing the SCAN button. At this point, you can either download the image files to a PC (See Page 21.) or replace the memory card to continue capturing.



Memory Full Indicator

If there is no memory card inserted to device, a warning icon will be shown on the screen when you enter the main menu.



No memory card indicator



**Clock Mode** (Setting the Correct Time)

Clock Mode

Press the Power button to turn on the scanner. The scanner will briefly display the Main Menu defaulting to the Capture Mode. After 5 seconds, the scanner automatically changes to the Live View Mode. Return to the Main Menu by pressing the scan button for 3 seconds. The Main Menu reappears and waits for your next selection.

Press the LEFT or RIGHT button until the word "Clock" appears at the top of the screen. Press ENTER to advance to the Clock Setting Menu. Next, press the LEFT or RIGHT button to move the yellow cursor across the top left portion of the screen. Stop when the clock icon turns yellow. Press ENTER to confirm the time setting Mode. The hours are highlighted with a green background. To change the hours, press the LEFT or RIGHT button to step to the correct hour. Once there, press ENTER to confirm. Next, press ENTER to move to the minutes and follow the same procedure to change minutes and seconds.



## GENERAL OPERATIONS

### SETTING THE TIME AND DATE

#### **Clock Mode Selecting Time display Units, Stopwatch, Time, Calendar, Temperature Units**

Follow the instructions in the first paragraph of Step 18 to enter the Clock Mode.

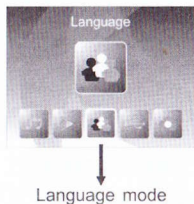
In Clock Mode, you can press the LEFT or RIGHT button to highlight any of the following items (Refer to the figure at the right.).

- 1 Use the LEFT or RIGHT button to highlight icon number 1.  
Press ENTER to change between a 12 or 24-hour display of the time.
- 2 Use the LEFT or RIGHT button to highlight icon number 2. Press the ENTER button to start/stop the stopwatch; press the LEFT or RIGHT button to reset the stopwatch to zero. Press the SCAN button to exit.
- 3 Press the LEFT or RIGHT button to adjust the date and time. Follow the instructions in Step 18.
- 4 Use the LEFT or RIGHT button to highlight icon number 4. A calendar will appear which you can use to look up dates. Use the ENTER to choose the year, month or day. Use the LEFT or RIGHT button to change the year, month or day. Press the SCAN button to return to the Clock Mode.
- 5 Use the LEFT or RIGHT button to highlight icon number 5. Press the ENTER button to convert room temperature readings between Centigrade and Fahrenheit values.



**Note:** If at any time while using the scanner no buttons are pressed, the display screen will enter its Power-Saving Mode (display will go blank). To reactivate the display, press any button (except the Power button).

## Language Mode



Press the Power button to turn on the scanner. The scanner will briefly display the Main Menu defaulting to the Capture Mode. After 5 seconds, the scanner automatically changes to the Live View Mode. Return to the Main Menu by pressing the scan button for 3 seconds. The Main Menu reappears and waits for your next selection.

Press the LEFT or RIGHT button until the word "Language" appears at the top of the screen. Press the ENTER button to display the language choices.

## Select language

To select a different language, press the LEFT or RIGHT button to move to your language of choice. Once there, press ENTER to confirm your selection.



### Transferring Stored Images

After you finishing a capturing session, remove the memory card from the film scanner to download the stored images from the memory card to your PC or Mac.

**NOTE: Images cannot be captured while in the USB mode. Images can only be stored while in the Capture Mode (See Pages 8-10.).**

### USB Mode/Status

When the scanner is connected to a USB port on a PC or Mac using the USB cable and with the scanner on, press the ENTER button for 3 seconds to bring up the Main Menu. Then press the LEFT or RIGHT button to select the USB Mode (as shown in the figure below). Next, press the ENTER button to confirm. Your computer will assign it a drive letter and the film scanner will become a mass storage device allowing you to review or edit images on your computer.



USB Mode

### **Browsing Recorded Images**

Perform the following steps to use your television as a large-scale monitor.

1. Turn on the film scanner and a TV which accepts an external picture and sound source.
2. Connect the film scanner to the TV using the TV cable provided.
3. Press the FLIP/RIGHT button to enter the TV Mode.
4. All functions can now be monitored on your television screen.

### **Troubleshooting**

**Problem:** There is an unwanted stripe appearing at the edge of the image

**Solution:** If it is a slight stripe, move the slide holder gently to and fro in the film scanner until the stripe is no longer visible in the preview window.

(If the stripe does not disappear, contact Db Tech for technical assistance. Contact information can be found below.

**Problem:** The USB cable is connected, but the film scanner is not recognized by the computer.

**Solution:** 1. Remove the USB cable from both the scanner and the computer and reconnect them making sure both ends are inserted properly.

2. Connect the USB cable to a different USB port. When proper connection is made and the film scanner is turned on, the computer should automatically recognize the scanner and assign it a drive letter. The film scanner will then act as a mass storage device.

### **Contact Information**

Db-Tech 2 Bergen Turnpike Ridgefield Park, NJ 07660 dbtech@camarketingusa.com

Lens	F/NO=4 f=3.93
Sensor	5.1MP CMOS
Liquid Crystal Display	2.36-in LTPS Display
External Memory	SD/MMC Card (32MB Max)
Internal Memory	16MB
Exposure	Automatic
Color Balance	Automatic
Scan High Resolution	10MP Interpolation Resolution
Data Conversion	12 Bits Per Color Channel
Scan Method	Single Pass
Light Source	Back light (3 White LEDs)
LED Lifetime (on and off)	10,000 times
Power	USB 5-volt Adapter
Interface	USB 2.0
Dimensions	4.76-in x 3.78-in x 2.17-in
Weight	8.5-oz
Languages	English, French, German, Italian, Spanish, Traditional Chinese, Simplified Chinese, Japanese

## Contact Us

**For any comments or issues, please contact us any time at**

DB-Tech  
2 Bergen Turnpike  
Ridgefield Park, NJ 07660

**or email us at**

[dbtech@camarketingusa.com](mailto:dbtech@camarketingusa.com)