

Pana-Vue® Pana-Scan™

**USER'S
MANUAL**

Model# APA125

14
MEGA
PIXELS



Portable Stand-Alone
SLIDE & FILM SCANNER

35mm Slides & Negatives, &
110, 126 Instamatic Negatives

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Thank you for purchasing the **Pana-Vue® Pana-Scan™** Stand-Alone Slide and Film Scanner. You can now quickly and easily convert your treasured slides and negatives into digital images. You'll be able to edit, crop and enhance your pictures, view, save, organize, and print them. You can easily share these memories with friends and family via email, CDs or DVDs, and watch them on a TV.

Pana-Vue products have been helping people enjoy, share and preserve their photographic slides, negatives and prints for more than a half-century

Please take a moment to read through this manual. It will help you get the best results from your Pana-Scan, and make your photographic memories even more enjoyable than ever.

1. Precautions

Before using The Pana-Vue Pana-Scan Stand Alone Slide and Film Scanner, please read and understand the safety precautions described below. Always make sure that the Pana-Scan Scanner is operated correctly.

- Never operate the Pana-Vue Scanner inside an aircraft or anywhere else where the operation of such devices is restricted. Improper use creates the risk of serious accident.

- Do not try to open the case of the Pana-Scan or attempt to modify the Pana-Scan in any way. High-voltage internal components create the risk of electric shock when exposed. Maintenance and repairs should be performed only by authorized service providers.
- Keep the Pana-Scan away from water and other liquids. Do not use the Pana-Scan with wet hands. Never use the Pana-Scan in the rain or snow. Moisture creates the danger of fire and electric shock.
- Keep the Pana-Scan and its accessories out of the reach of children and animals to prevent accidents or damage to the Pana-Scan.
- If you notice smoke or a strange odor coming from the Pana-Scan, unplug the USB cable from your computer immediately. Take the Pana-Scan to the nearest authorized service center for repair. Never attempt to repair the Pana-Scan on your own.
- Use only the recommended power accessories. Use of power sources not expressly recommended for the Pana-Scan may lead to overheating, damage to the equipment, fire, electrical shock or other hazards.
- Turn off the Pana-Scan when not in use.
- Disconnect the Pana-Scan from your computer's USB port when not in use.
- The Pana-Scan may become slightly warm during use. This does not indicate a malfunction.
- If the exterior of The Pana-Scan needs cleaning, wipe it with a soft, dry cloth.

FCC Notice

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. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communication. 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 on then off, the user is encouraged to try to correct the interference by one or more of the following suggestions:

- Reorient or relocate the receiving antenna.
- Increase the distance between the Pana-Scan and the receiver.
- Connect the equipment to a different power outlet other than the one where the receiver is connected.
- Consult an experienced television or radio technician for help.

CAUTION

To comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules, this device must only be installed on computer equipment certified to comply with the Class B limits.

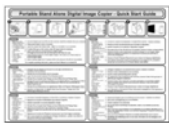
This unit may contain a microcomputer for signal processing and control function. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this should happen, turn off the Pana-Scan, remove battery, wait at least five seconds, and re-install battery then turn it back on again.

2. Preparation

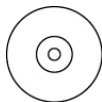
Parts included in package



Pana-Scan Scanner



Quick Guide



CD



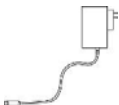
35mm Negative Holder



35mm Slide Holder



Cleaning brush



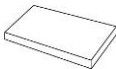
AC adapter



USB cable



TV cable



Lithium battery

Optional Accessories (sold separately)

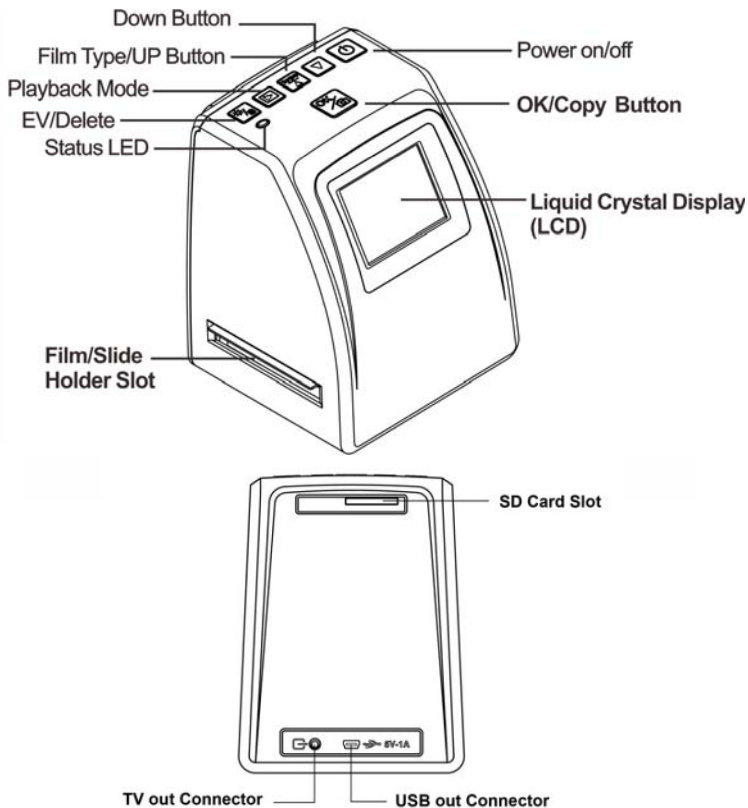


110 Instamatic Negative Holder
APA128

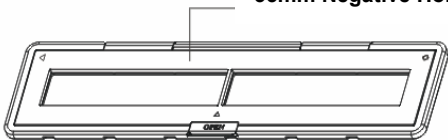


126 Instamatic Negative Holder
APA129

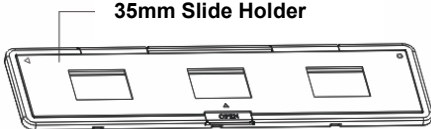
Location of Parts



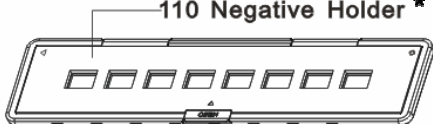
35mm Negative Holder



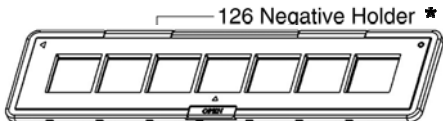
35mm Slide Holder



110 Negative Holder *



126 Negative Holder *

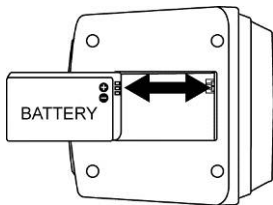
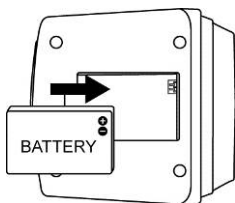
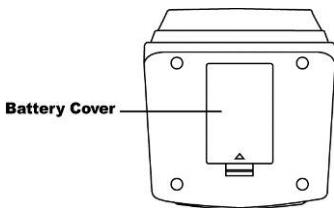


Note: We strongly recommend using the supplied cleaning brush or a clean, dry, non-alcoholic cotton swab to insert into the Pana-Scan Film / Slide Holder Slot and clean the glass surface periodically to produce a clear image. Please make sure your film negatives, mounted slides and holder trays are clean before inserting into the Pana-Scan as well. Dust or dirt from the negatives, slides, and holder trays will affect the quality of your scanned images.

* Sold separately

Installing the Battery Pack

1. Open the battery compartment cover by lightly pressing and sliding it back.
2. Insert the supplied battery. Make sure the battery label is facing upwards and the (+ and -) ends of the battery match to the polarities indicated in the battery compartment as shown.
3. Snap the cover back into place.



Battery power status

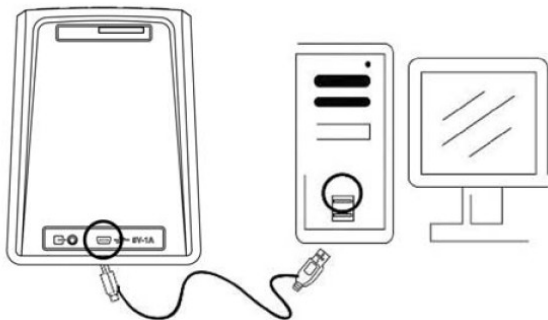


Charging the Battery Pack

The battery pack is not charged at the time of purchase and therefore needs to be charged before use. If the battery charge becomes low while you are using the Pana-Scan, it is recommended to recharge it as soon as possible.

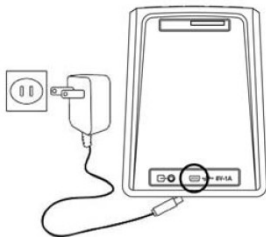
1. Insert the battery pack into the battery compartment (see page 9)
2. You may charge the battery in 2 ways:
 - (a) Plug the USB mini B of the supplied USB cable to the USB port of the Pana-Scan, and plug the other USB end into the USB port of your computer.

Please charge the battery at least 5.5~6 hours prior to your first use.



- (b) Plug the USB mini B of the supplied AC adapter to the USB port of the Pana-Scan, and plug the adapter into the power outlet.

Please charge the battery at least 2.5~3 hours



3. A Red LED will light during charging. When the battery pack is fully charged, the red LED light will turn off and you may disconnect the charger.

Status LED:

- Red: The Pana-Scan is OFF, the battery is charging.
Purple: The Pana-Scan is ON, with USB or AC adapter connected.
Blue: The Pana-Scan is ON, and is being powered from the battery, or no battery is installed & scanner is running on external AC adapter or USB cable from computer.

3. Placing Film / Slides Into the Holder

5. Keep the glossy side of the negatives/slides facing up. Open the slide or negative holder as Illustrated.



5. Put up to 3 slides, or strip of negative film into holder as shown.

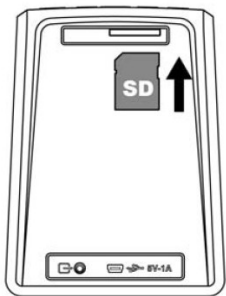


5. Close up the holder and please make sure the holder closes securely.



4. Using the Pana-Scan Scanner

1. Insert SD card into the SD card slot first.

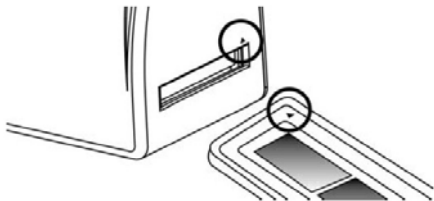


2. Press Power button to turn on the Pana-Scan.
Press Power button to turn off when the Pana-Scan is not in use.

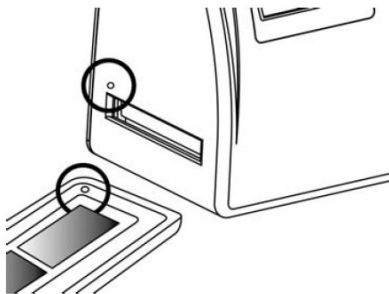


3. Insert the loaded film/slide holder properly into the slot matching the ▲ or ● sign shown on the Pana-Scan and the film holder.

**IMPORTANT: INSERTING HOLDERS INCORRECTLY
MAY DAMAGE YOUR PANA-SCAN**



(Insert through right entrance – match ▲ on holder with ▲ on Pana-Scan)

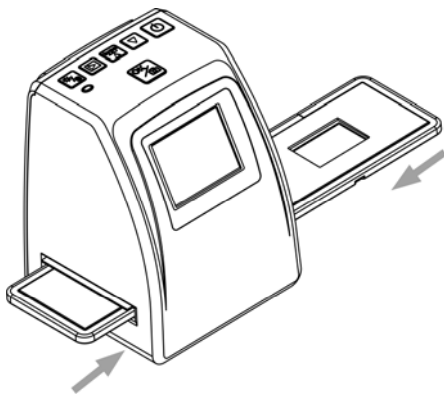


(Insert through left entrance – match ● on holder with ● on Pana-Scan)


You can position the film by moving the film holder left or right. The film holder can be moved in both directions.


Make sure your picture is in the rectangular white frame of the LCD. Improper alignment of the picture may result in the black edges of the film holder appearing in the scanned image.

You may crop away the black edges later with software. (Please refer to page 32 - Editing the Pictures Section 1.4 - Crop)



4. To select film type on the screen.
Press Film Type Button for selection.

35mm positive (slide) 

35mm negative 

35mm black & white 

110 negative 

126 negative 



Note: Improper selection of Film type may yield poor results

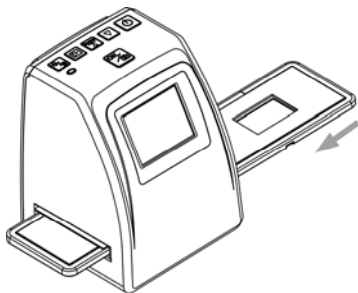
5. Press **Copy Button** to convert picture to Digital Image.

NOTE: To get the best Digital Image wait for the image display on the LCD screen to adjust the brightness until it becomes stable. It normally take 3~4 seconds, depending on the exposure of your film.



Note: To save power, the Pana-Scan will automatically go into a sleep mode if you do not use it for 3 minutes. To “wake up” the Pana-Scan, press any one of the buttons.
If the Pana-Scan is dormant for more than 6 minutes it will turn off automatically.

6. Moving the film holder for next image.



7. The exposure of the Pana-Scan is set automatically. Sometimes you may want to adjust the exposure manually:

Press EV/Delete button to adjust the expose value. Press Up or Down Button to adjust the exposure compensation from +2EV (Lighter) to -2EV (Darker) in 0.5 increments. The amount of compensation is shown at the bottom of the LCD.

EV Adjustment

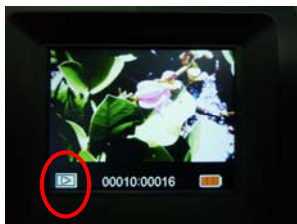


+ EV ▲ - EV ▼



5. Playback Mode

1. Press **Playback Button** to playback Digital image.



2. Press **UP button ▲** to see **next image**.

Press **DOWN button ▼** to see **previous image**.



3. Press Play Back button again for slide show



4. Press Play Back button again to go back to capture screen.



6. Delete Mode

1. In **Playback Mode** press **Delete button once** to **delete current image** shown on screen. To confirm deletion, press OK button (#2). If you do not wish to delete the image, push the Down button ▼ to change “delete” to “No”, then press OK button to cancel deletion.



2. Press **Delete button twice** to **delete all images**. To confirm deletion, press OK button (#2). If you do not wish to delete the images, push the Down button ▼ to change “delete” to “No”, then press OK button to cancel deletion.



3. Press **Delete** button three times to format SD card.



Note: Formatting SD card will **delete all the files** on the card. Download your files on the SD card to your computer **before** you format the SD card.

7. Transferring From SD Card to Computer

1. Plug the USB cable into the Pana-Scan and the computer's USB 2.0 port.



2. Turn Pana-Scan power on.
3. Press the Up button to select "SD to PC" to **YES**, then press the OK button for confirmation.
4. Your computer will recognize the Pana-Scan as an external removable disk drive. You can use any transfer method you are most familiar with (copy and paste, drag & drop) and you can edit photos with any photo editing software that will read a .jpg file or you can use the MediaImpression2 software that is supplied with the Pana-Scan. Complete instructions for using MediaImpression2 can be found starting on page 26.



8. Viewing Images on TV

1. Set TV to video mode, and plug the TV cable into Pana-Scan and TV. Turn power on.



2. Press Playback button for viewing images on TV.



3. Press UP button ▲ to move forward.

Press DOWN button ▼ to move backward.



4. Press Playback button once more to start slide show on the TV screen.

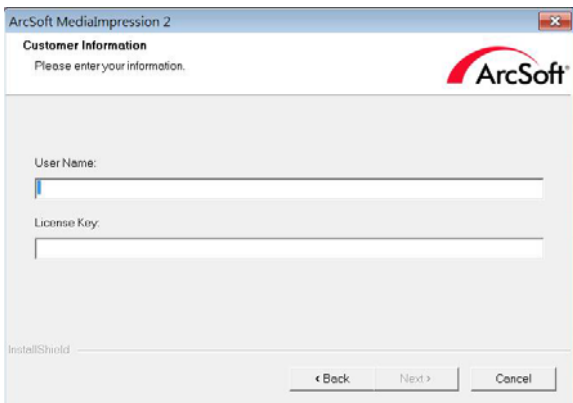


The slide show can be stopped by pressing the UP ▲ or DOWN ▼ button. The slide show can be continued by pressing the Playback button again.

5. Pressing the Playback button once more during the slide show will terminate the TV mode and the Pana-Scan will return to the original mode.
6. Press Power button to turn off Pana-Scan when you are done viewing the images on your TV.

To activate the bundled software (MediaImpression2), insert CD into computer (CD will auto run), select MediaImpression2, follow prompts on screen. When MediaImpression screen is displayed, you must enter License key to install MediaImpression.

See screen below :



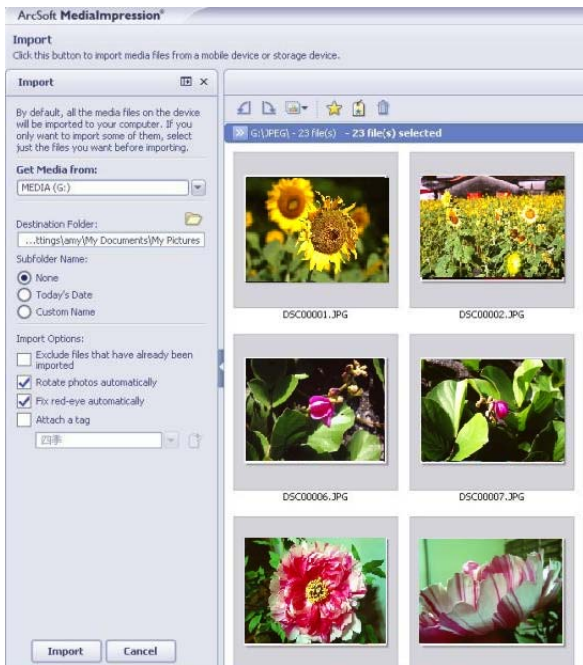
The screenshot shows a Windows-style dialog box titled "ArcSoft MediaImpression 2". The main heading is "Customer Information" with the instruction "Please enter your information." and the ArcSoft logo in the top right. There are two input fields: "User Name:" and "License Key:". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The "InstallShield" logo is visible in the bottom left corner.

Please enter what you would like to have for User Name. The License key is on the sticker on the CD paper cover. See below:



Type the S/N into License key field and click "Next" to install the software onto your computer.

When MediaImpression screen is displayed (see below)



the images saved on the SD card can be imported into your computer for reviewing by clicking the Import button You can copy the images from the SD card to the designated folder or album of your computer.

Note:

The Bundled MediaImpression software is only for image editing purposes.

The Acquire function in the software is for other Scanner models without TFT display.



9. For iPad and Tablet Users

The Tablet does not supply external power to the Pana-Scan. The battery must be installed in the Pana-Scan (P. 8) when connected to your Tablet to download images.

iPad:

The images on the SD card can be downloaded directly to your iPad as described on P. 24 by connecting a USB cable to the iPad using a camera connection kit* or using an SD Card reader* For more details see instructions supplied with the connection kit you have purchased separately.

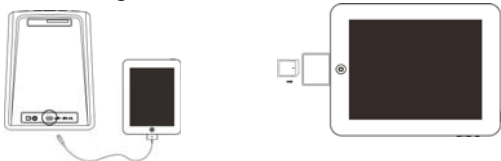
Android Tablet:

Connect a USB cable* from your Tablet to the Pana-Scan.

The following warning may occur if the battery is not in the Pana-Scan when connected to your iPad:

“Accessory unavailable; the attached accessory is using too much power”

Please see “Troubleshooting of your connection kit” if you see the above warning.



* Optional connection kits sold separately.

10. Editing the Pictures

First, click on the picture to select, and then use the ArcSoft MediaImpression tools to edit the pictures as you like.

Edit

Photo Editing Tools

The Photo Editing Tools module includes a complete set of photo enhancement, editing and retouching controls. The windows can be stretched to provide a large size view of the active photo. Double click the module's tool bar to maximize the window to fill the computer screen. In addition to the large photo workspace, the Photo Editing Tools module includes five distinct sets of controls:

1. Adjust

1.1 Enhance

The Enhance feature includes two types of controls:

- Auto Enhance 

Click the "Auto Enhance" button to improve the overall quality of your pictures with a single click.

- Manual Fix

For precise image enhancement control, adjust the brightness, contrast and sharpen sliders.

How to enhance a photo manually:

1. Move the sliders to adjust the level of brightness, contrast, saturation, hue and sharpen for adjustment.
2. Use the zoom slider to get a closer look at how the adjustment affects the photo.
3. Click "Apply" if you like the result. Click "Cancel" if you do not.

1.2 Color

This feature is designed to fix digitized photos that have unnatural color or appear too dark. It's also great for fixing scanned versions of old prints that have faded or whose colors have changed after many years.

How to fix the color of a photo:

1. Drag the color balance sliders to make the photo color appear more natural. Add red or yellow to make the photo warmer. Add blue or green to make the photo cooler.
2. Drag the Lighter/Darker slider to the left to reveal details hidden in a dark photo or to the right to make a faded photo look new again.
3. Click "Apply" if you like the result. Click "Cancel" if you do not want to apply changes.

1.3 Red-Eye

This feature makes it easy for you to fix red-eye, a common problem in flash photography.

There are two ways to fix red-eye:

- Auto Fix 

1. Simply click the "Fix Red-Eye" button to automatically find and fix all red-eyes.
2. If not all of the red-eye is fixed, use the "Click to Fix" method.

- Manual Fix

1. Use the zoom slider on the toolbar to zoom in on the photo.
2. Drag the small white box inside the zoom navigator to move over a red eye.
3. Place your cursor directly over the red eye and click.
4. Repeat the process until all the red eyes are fixed.
5. Click “Undo” if you make a mistake or don’t like the result.

1.4 Crop

This feature enables you to trim photos for a dramatic effect or cut off the distracting parts of a picture.

How to use the crop function:

1. Choose the crop orientation (portrait or landscape).
2. Select a fixed proportion for the crop rectangle (4:6, 5:7, 8:10) or choose “Custom” if you want to use a different proportion.
3. Resize the crop rectangle by clicking and dragging the red lines.
4. Move the crop rectangle into position by clicking and dragging inside the red box.
5. Click “Crop”. The area inside the rectangle will be kept, the area outside will be trimmed away.
6. Click “Undo” if you make a mistake or don’t like the result.

1.5 Straighten

This feature enables you to fix photos that appear to be tilted.

How to use Straighten:

1. Move the slider (or click the rotate buttons) until the photo appears straight.
2. Use the superimposed grid lines for vertical and horizontal reference.
3. Click “Apply” if you like the result. Click “Cancel” if you do not want to apply changes.

1.6 Blur Background

This feature can be used in subtle way – to tone down un-important background details, or for dramatic effect- by making the main subject of a photo “pop out” of the picture.

How to use the Blur Background function:

1. With your cursor, trace a line around the person or object you want to stand out. When you release the mouse button, the area outside the traced line will become slightly blurred.
2. Drag the first slider to make the transition between the blurred and non-blurred area sharp or smooth.
3. Drag the second slider to increase or decrease the amount of blur.
4. Click “Apply” if you like the result. Click “Cancel” if you do not want to apply changes.

Saving Your Results

When you're done editing a photo, click "Save as" to save your results. You can choose to overwrite the original file or save with a new name.

Click "Close" to exit the Photo Editing Module.

2. Retouch

2.1 Healing Brush



The Healing Brush is good for fixing dust, scratches and removing skin blemishes.

How to use the Healing Brush to fix a skin blemish:

1. Establish a source point for the Healing Brush by holding the Shift key and clicking on an area of the skin that is close in color and texture to the area you want to heal.
2. Use the zoom control to zoom in on the blemish.
3. Adjust the size of the healing brush so the cursor (circle) is only slightly larger than the blemish.
4. Paint over the blemish. The area will be concealed.
5. Click "Undo" if you make a mistake or don't like the result.



2.2 Clone

The Clone tool is good for the removing unwanted elements from a photo. It can also be used for a fun effect, like moving a nose from one person to another.

How to use the Clone tool to remove a telephone pole from the background of a photo:

1. Establish a source point for the Clone tool by holding the Shift key and clicking on an area of the sky that you want to use to paint over the telephone pole.

2. Adjust the brush size so the cursor (circle) is only slightly larger than the widest part of the telephone pole.
3. Click and hold your mouse button and carefully paint over the telephone pole. Do not release the mouse button until the job is done. The sky will be cloned into place.
4. Click “Undo” if you make a mistake or don’t like the result.

2.3 Lighten/Darken



The Light/Darken tool is good for adjusting specific areas of a photo.

2.4 Smudge



Simulate the smearing of wet paint. Please click and drag the sliders below to change the brush size and sharpness.

2.5 Sharpen



Sharpen blurry areas. Click and drag the sliders below to change the brush size and transparency.

2.6 Blur



Smooth out rough areas. Click and drag the sliders below to change the brush size and intensity.

2.7 Paint Brush



Allows you to “paint” on your image when you click and drag the mouse. Click and drag the sliders below to change the brush size and transparency.

2.8 Line



Draw a straight line in the photo. Click and drag the sliders below to change the line width and transparency.

2.9 Eraser



Simulate an eraser, removing the image painting by paintbrush and line tools from your photo. Click and drag the sliders below to change the eraser size and effect.

3. Clipboard

Clip the pictures by selecting Rectangular, Elliptical, Freehand, Magic wand and Magnetic.

Note: For more detailed information, please refer to the [Help section] of program.




























11. Appendix

Specifications

Image Sensor	1/2.33" 14 Mega Pixel CMOS Sensor
Preview and Review	2.4" Color LCD Display
Lens Specification	F=4.5, f=14mm, Hybrid
Color Balance	Automatic
Exposure Control	Automatic & Manual adjustment
Scan High Resolution	14M (4224 x 2816 pixels) for 35mm film & slide, equal to 3,200 dpi
Support Film Type	35mm Slide
Auto Converting / Auto Cropping	35mm, 110, 126 color negative film 35mm black & white negative film
Focusing	Fixed Focus
EV adjustment	Yes, + / - 2.0 EV
PC Interface	USB 2.0
Image Format	35mm Negative 3:2 Ratio 110 Negative 4:3 Ratio 126 Negative 1:1 Ratio
Light Source	3 white LED
USB Port	Mini USB connector (Cable Included)
Power Source	From USB port (cable included) AC adapter 110/240,50/60HZ(included) Li-ion 3.7V / 1050 mAH Battery (included)
TV System	NTSC and PAL
Dimension	5.75 (H) x 4.25 (W) x 4.25 (L) cm
Bundled Software	ArcSoft MediaImpression2

Specifications are subject to change without notice.

Icons & Indicators

	Battery Full		Delete One
	Battery 2/3		Delete All
	Battery 1/3		Format SD Card
	Battery Empty		Yes
	135 Slide		No
	135 Negative		Card Error
	B/W 135 Negative		Card Full
	110 Instamatic		Card Lock
	126 Instamatic		Card Lock
	Playback Mode		PC-SD Card
	Slide Show		PC-SD Card Link
	Wait		TV System Selection
	EV Compensation Indicator		
	EV Compensation		
	Available image capacity on SD card		

PC System Requirements

- Pentium® P4 1.6GHz processor or equivalent
- Free USB2.0 port
- 512MB RAM
- 500MB free hard disk space
- 1024 x 768 pixel color monitor
- CD-ROM drive
- Windows® 8, Windows® 7, Windows® Vista, Windows® XP Service Pack II

Mac System Requirements

- PowerPC G5 800 Mhz or Intel Core Duo processor recommended
- Free USB2.0 port
- 768MB RAM
- 500MB free hard disk space
- 1024 x 768 color monitor
- CD-ROM drive
- Mac 10.5 ~ **10.9**

This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.



12. One Year Limited Warranty

Argraph Corp. warrants this product against defects in materials and/or workmanship under normal use for a period of one (1) year from the date of purchase by the original purchaser ("Warranty Period"). If a defect arises and a valid claim is received within the Warranty Period, at its option, Argraph will either 1) repair the defect at no charge, using new or refurbished replacement parts, or 2) replace the product with a new product that is at least functionally equivalent to the original product. A replacement product or part, including a user-installable part installed in accordance with instructions provided by Argraph, assumes the remaining warranty of the original product. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Argraph's property.

Obtaining Service: To obtain warranty service, call Argraph Repair Dept. at 1-800-526-6290. Please be prepared to describe the product that needs service and the nature of the problem. A purchase receipt from an authorized retailer is required. In many cases, trouble-shooting on the phone can solve technical problems. All repairs and replacements must be authorized in advance. Service options, parts availability and response times will vary. You are responsible for delivery and the cost of delivery of the product or any parts to the authorized service center for replacement, per our instructions.

Limits and Exclusions: Coverage under this Limited Warranty is limited to the United States of America, including the District of Columbia and the U.S. territories of Guam, Puerto Rico, and the U.S. Virgin Islands. This Limited Warranty applies only to products manufactured and distributed by Argraph that can be identified by the "Pana-Vue" trademark, trade name, or logo affixed to them or their packaging. The Limited Warranty does not apply to any non-Pana-Vue products. This warranty does not apply to: a) damage caused by failure to follow instructions relating to product's use or the installation of components; b) damage caused by accident, abuse, misuse, fire, floods, earthquake or other external causes; c) damage caused by service performed by anyone who is not a representative of Argraph; d) accessories used in conjunction with a covered product; e) a product or part that has been modified to alter functionality or capability; f) items intended to be periodically replaced by the purchaser during the normal life of the

product including, without limitation, batteries or light bulbs; g) any product sold "as is" including, without limitation, demonstration models and refurbished items; or h) a product that is used commercially or for a commercial purpose. This warranty is invalid if the factory-applied serial number has been altered or removed from the product.

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Pana-Vue® 1 Illuminated Slide Viewer

Tabletop convenience with 2-way base for choice of viewing angles. Light bar locks for consistent illumination.

2 1/2" square viewing screen. Brilliant 4X magnification powered by 2 "C" batteries (not included) or household current with optional AC Adapter.

#FPA001 Pana-Vue® 1



Pana-Vue® Automatic Illuminated Slide Viewer

The most convenient way to stack and view up to 36 slides. Easy push-pull operation. Big 2 5/8" square viewing screen. Provides brilliant magnification of 35mm and other 2 x 2 in (5 x 5 cm) mounted slides. Operates on household current with the Pana-Vue® transformer (optional). Also operates on two "D" size batteries (not included).

#FPA005 Pana-Vue® Automatic



Pana-Vue® 2 Illuminated Slide Viewer

Compact viewer for tabletop or hand use. Viewing area 1 7/8" square. Brilliant 2X magnification powered by 2 "AA" batteries (not included) or household current with optional transformer.

#FPA002 Pana-Vue® 2



Pana-Vue® 3 Slide Viewer

Compact 2X hand-held viewer uses window or room light. Translucent back diffuses ambient light for even illumination.

#FPA003 Pana-Vue® 3



Pana-Vue® Slide Viewer AC Adapter Transformer

Save on the cost of batteries. Can be used with Pana-Vue®1, Pana-Vue®2 and Pana-Vue®Automatic. Lightweight and durable. UL approved.

FPA007 Pana-Vue® Transformer



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Pana-Vue® Archival Pages

Slide Pages

Extra Heavy Duty 10mil Crystal Clear Polypropylene



2x2-20

FPA205 (pk/25)
FPA207 (pk/100)

Holds 20 35mm
mounted transparencies.
I.D. strip for each slide.
Top loading in 3-ring binder.



2x2-20H

FPA206 (pk/25)
FPA208 (pk/100)

Holds 20 35mm
mounted transparencies.
Top loading on hanger.
Side loading in 3-ring binder.



6x6-12

FPA209 (pk/100)

Holds 12
6 x 6cm
mounted slides.
Top loading
in binder.

Print Pages

Crystal Clear Polypropylene • Inkjet Safe



3x5-8

GPA200 (pk/25)
GPA200C (pk/100)

Holds eight 3½ x 5 prints



3x5-10

GPA202 (pk/25)
GPA202C (pk/100)

Holds ten 3½ x 5 prints



4x5-4/8

EPA405 (pk/25)
EPA404 (pk/100)

Holds eight 4 x 5
Polaroid prints



4x6-6

GPA206 (pk/25)
GPA206C (pk/100)

Holds six
4 x 6 prints



5x7-4

GPA208 (pk/25)
GPA208C (pk/100)

Holds four
5 x 7 prints



8x10-2

GPA210 (pk/25)
GPA210C (pk/100)

Holds two
8 x 10 prints
or one
8 x 10 transparency



8x11-2

GPA212 (pk/25)
GPA212C (pk/100)

Holds two
8½ x 11 prints
or documents

Negative Pages

Also hold unmounted transparencies
Archival Polyethelene

35mm



35-6x4

EPA409 (pk/25)
EPA410 (pk/100)

Holds six
4 frame 35mm strips.
24 frames total.
Contact prints on 8 x 10



35-7x5

EPA401 (pk/25)
EPA400 (pk/100)

Holds seven
5 frame 35mm strips.
35 frames total.
Contact prints on 8 x 10



35-6x6

EPA399 (pk/25)
EPA398 (pk/100)

Holds six
6 frame 35mm strips.
36 frames total.



35-7x6

EPA412 (pk/25)
EPA407 (pk/100)

Holds seven
6 frame 35mm strips.
42 frames total

120



120-3x4

EPA446 (pk/25)
EPA445 (pk/100)

Holds 12 frames
of 6 x 6cm,
or 15 frames of
6 x 4.5cm.
Contact prints
on 8 x 10



120-4x3

EPA403 (pk/25)
EPA402 (pk/100)

Holds 12 frames
of 6 x 6cm or
6 x 4.5cm,
or 8 frames of
6 x 7cm.
Contact prints
on 8 x 10



120-4x3/67

EPA420
(pk/100)

Holds
12 frames
of 6 x 7cm



120-9

EPA418 (pk/25)
EPA418C (pk/100)

Holds 9
sleeved frames
of 120 film
up to 6 x 7cm,
or 18
2½ x 3½ prints
or collectable
cards.

4 x 5



4x5-4/8

EPA405 (pk/25)
EPA404 (pk/100)

Holds four 4 x 5 negatives
or transparencies
(sleeved or unsleeved)
or eight 4 x 5 Polaroid prints
Crystal Clear Polypropylene

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