

DC-504

User manual



Thank you for purchasing this AgfaPhoto digital camera. Please read these operating instructions carefully in order to use the digital camera correctly. Keep the instructions in a safe place after reading so that you can refer to them later.

Precautions

- Do not aim the camera directly into the sun or other intense light sources which could damage your eyesight.
- Do not try to open the case of the camera or attempt to modify this camera in any way. High-voltage internal components create the risk of electric shock when exposed. Maintenance and repairs should be carried out only by authorized service providers.
- Do not press the flash too close to the eyes of animals or young children. Eye damage may result. Please remain at least one meter away from infants when using flash.
- Keep the camera away from water and other liquids. Do not use the camera with wet hands. Never use the camera in the rain or snow. Moisture creates internal danger and may cause electric shock.
- Keep the camera and its accessories out of the reach of children and animals to prevent accidents or damage to the camera.
- If you notice smoke or a strange odor coming from the camera, turn the power off immediately. Take the camera to the nearest authorized service center for repair. Never attempt to repair the camera on your own.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.

Disclaimer

We assume no responsibility over and above the provisions of the Product Liability Law for damages suffered by the user or third parties as a result of inappropriate handling of the product or its accessories, or by their operational failure and by their use. We reserve the right to make changes to this product and its accessories without prior notice.

Warning!

Never disconnect to open the camera or remove any parts of it. This will invalidate all guarantee claims.

Using your batteries

For best performance and prolonged battery life, we recommend the use of AA lithium or rechargeable Ni-MH batteries.

Extending battery life

The following functions use up a great deal of battery power and should therefore only be used occasionally:

- Excessive use of flash
- Editing images on the camera display

The battery life can be affected by soiling. Please clean the contacts with a clean and dry cloth before putting the batteries in the camera. Battery performance drops at temperatures below 5 °C (41 °F). If you use the camera at low temperatures you should have replacement batteries to hand and ensure they do not get too cold. Please note: you should not dispose of cold and seemingly flat batteries because these batteries may work again at room temperature.

Get To Know Your Camera

1.1 Specifications

| | | |
|--------------------|------------------|---|
| Image Sensor | Type | 5M 1/2.5" CMOS Sensor |
| | Effective pixels | Approx. 5.03 megapixels |
| | Total pixels | Approx. 5.51 megapixels |
| Lens | Focal length | f=7.12mm |
| | Brightness | F3.2 |
| | Digital | Still Image mode : 1X ~ 8X Play mode : 1X ~ 8X (depends in image size) |
| LCD Display | | 2.4" color LCD 115K dots |
| Focus Range | Range | Macro: 20cm, Normal : 1.2m ~ infinity |
| Shutter | Type | Electrical shutter |
| | Speed | Normal: 1/4 sec. - 1/800 sec., Night Sense: 4 sec. 1/8 sec. |
| Exposure | Control | Programmed AE |
| | ISO equivalent | Auto |
| Flash | Modes | Auto Flash, Fill-in flash, Flash off (Recharging time approx 5 sec.) |
| | Range | Working Range 1.0 ~ 2.0m |
| White Balance | | Auto, Daylight, Cloudy, Tungsten, Fluorescent |
| Sharpness | | Soft, Normal, Hard |
| Effect | | Standard, Vivid, Sepia, B & W |
| Shooting | Still image | Single Image, Continuous Shooting (VGA, 3M, 5M with 3 shots) |
| | Image quality | Super Fine, Fine, Normal |
| | Scene mode | Auto, Sport, Night Portrait, Landscape, Backlight |
| | Movie clip | Size support: 320x240 (QVGA), 640x480 (VGA) Quality support: 20 fps and 15fps Digital Zoom: 1X ~ 8X |
| Voice Recording | | Yes |
| | | Voice Memo in Still Image (max. 10 sec.), supports pause/resume recording |
| PC Cam | | Yes |
| Selftimer | | 10 sec., 2 sec. |
| Storage | Media | Internal flash memory: 16MB (some capacity may have been occupied by the camera's programs) supporting SD Card (2 GB) |
| | File Format | Still Image: JPEG(DCF), EXIF 2.2, DPOF 1.1, PictBridge 1.0 Movie Clip: MJPEG, 320x240 (QVGA), 640x480(VGA), with audio |
| | Image Size | 12M Via Interpolation: 4032x3024, 5M: 2560x1920, 3M: 2048x1536, VGA:640x480 |
| Image play | | Single image, Thumbnails, Slide show, Movie Clip |
| Interface | | Digital output connector: USB 1.1 |
| | | TV output: N/A |
| | | MIC input: Yes; Buzzer out (no speaker) |
| | | |
| Power source | | 2 x AA alkaline, Ni-MH Battery |
| Dimensions (WxHxD) | | 87.7x60.8 x24.5mm (29.9mm at the thickest part) |
| Weight | | Approx. 86g (batteries and card exclusive) |
| Software | Application | Storage Driver (Win2000, WinMe, WinXP, Vista32/64) |

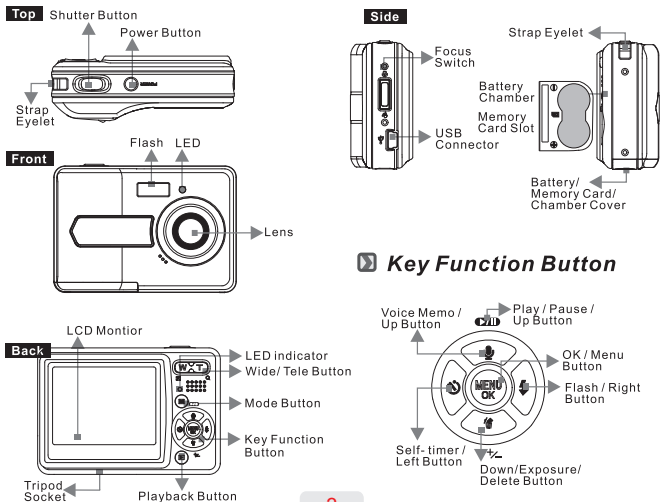
1.2 System Requirements

| | |
|----------------------|--|
| For Windows | <ul style="list-style-type: none"> • Windows 2000 Professional(SP4) / Windows ME / Windows XP (SP2) / Window Vista • Minimum 64MB RAM (XP:128MB) • USB port(1.1 or 2.0 Standard interface). • CD-ROM drive |
| For Macintosh | <ul style="list-style-type: none"> • Mac OS 9.1 • Minimum 64MB RAM • USB port. • CD-ROM drive • Quick Time 6.0 or later for MPEG4 Movie Clip |

• Specifications are subject to change without prior notice.

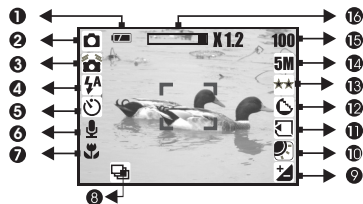
1.3 Overall Introduction

External View



1.4 Explanation of the status icons

Icon Display



- 1** **Battery Status**
 (Full) Battery Full
 (Half) Battery Half Drained
 (Empty) Battery Drained

- 2** **Working Mode**
 (Image) Image Shooting Mode
 (Play) Playback Mode
 (Movie) Movie Clip Mode
 (Voice) Voice Recording Mode

- 3** **WARNING:**
 Holding Camera Stable

- 4** **Flash Mode**
 (Flash) Auto Flash
 (Off) Fill-in Flash
 (Off) Flash Off

- 5** **Self-timer**
 (10s) 10 Seconds
 (2s) 2 Seconds

- 6** **Voice Memo**

- 7** **Focus Range**
 (Macro) Macro

- 8** **Shooting**
 (Continuous) Continuous
 (Single) Single

- 9** **Exposure** ±2

- 10** **W. Balance**
 (Auto) Auto
 (Daylight) Daylight
 (Cloudy) Cloudy
 (Tungsten) Tungsten
 (Fluorescent) Fluorescent

- 11** **Memory Card**
 Inserted

- 12** **Sharpness**
 (Soft) Soft
 (Normal) Normal
 (Hard) Hard

- 13** **Quality**
 (S) S. Fine
 (F) Fine
 (N) Normal

- 14** **Size**
 12M (Via interpolation)
 5M
 3M
 VGA

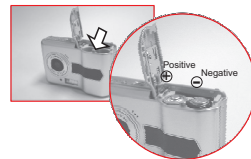
- 15** **(100) Available Shots**

- 16** **Zoom Status**
 Indicator
 (8.0X) 8.0X Digital Zoom

Using The Camera

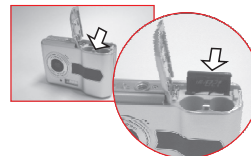
2.1 Loading the Batteries

1. Power off the camera.
2. Slide out battery chamber cover to open it.
3. Load 2 x AA batteries into the battery chamber, following the polarity indications.
4. Close the battery chamber cover.



2.2 Inserting Memory Card

1. Power off the camera.
2. Open the card slot cover, and insert the card in the card slot.
3. Insert the memory card into the card slot and press it down until a click sound happens
4. Close the card slot cover.

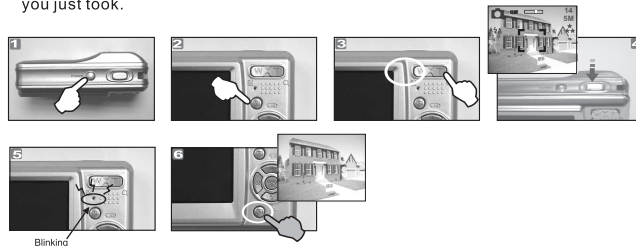


2.3 Taking Basic Photograph

1. Press down the POWER button to turn on the camera.
2. Press the mode button to Image Shooting Mode (Image) for still image, Movie Clip Mode (Movie) for video recording, or Voice Recording Mode (Voice) for voice recording.

Note: Hold your camera with your hands and position a subject in the center of the frame to focus on.

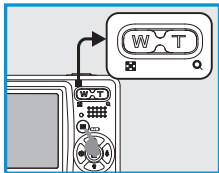
3. With TELE/WIDE Button, you can have 8X digital zoom for zooming in and out.
4. Press the shutter button fully down to capture an image.
5. The LED Indicator starts blinking right after the Shutter Button is released. Once the LED Indicator stops blinking, you are ready to take another shot.
6. Or you can press Playback Button (Play) to review the images or movie clips you just took.



Advanced Functionality Setting

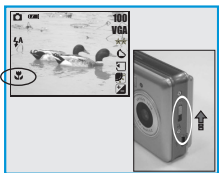
3.1 Under Image Shooting Mode (📷)

📷 TELE/WIDE Button (Continuous Digital Zoom 8X)



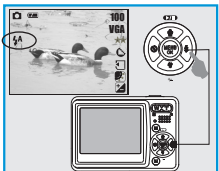
✦ The zoom Indicator, appearing on the top of the LCD Monitor, shows the current digital zoom status.

📷 Focus Switch



✦ When you take a shot of a very close-up of object within the distance of 20 cm, please push the Focus switch up to begin with the Macro function and the Macro icon (👉) will also appear on the LCD Monitor for notice.

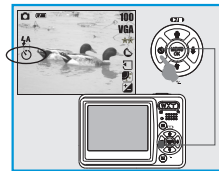
📷 Flash Button



✦ By pressing down the Flash/Right Button in order, you may select different flash options as follows:

| | | |
|--|----------------------|---|
| | Auto Flash | The flash fires automatically as required under shooting mode. ✦ Suggestion for getting a good exposure picture when using Flash: The camera should keep 1.5~2 meters from the object you're ready to capture. |
| | Fill-in Flash | This mode will enable the flash to fire in any circumstances. |
| | Flash Off | The mode will disable the flash to fire in any circumstances. |

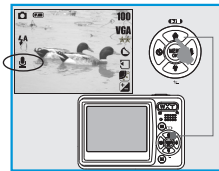
📷 Self-timer Button



✦ **With the 10 sec. Self-timer:**
The image will be taken after an interval of 10 seconds once the Shutter Button (📷) is released.

With the 2 sec. Self-timer:
The image will be taken after an interval of 2 seconds once the Shutter Button (📷) is released.

📷 Voice Memo Button



✦ You can have two ways to put the voice memo onto the images.

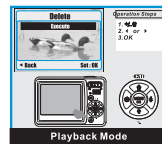
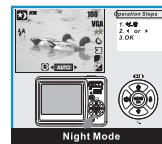
In Image Shooting Mode:

1. When the Voice Memo Button is pressed down, the Voice Memo icon (🗣️) will show up on the LTPS LCD Monitor.
2. Press down the Shutter Button to take a picture.
3. Then you can record a voice right after the image is taken.

In Playback Mode:

1. Press down the Voice Memo Button and you can see the VOICE MEMO icon (🗣️) showing on the LCD Monitor.
2. Press down the Shutter Button to record a voice memo.
3. Press down the Shutter Button to finish the voice memo.

📷 Exposure / Delete Button



In Image Shooting Mode:

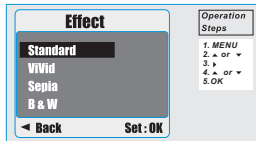
By pressing down (delete) button of 5 function keys, you can easily adjust the value of the exposure by left / right button from +2.0EV to -2.0EV (at 0.3EV increments).

Night Scene Under Shooting Mode:

By pressing down the Delete / +/- button, you can use left/right button to adjust the value of the Longtime shutter, which is ranged from AUTO, 1/8, 1/4, 1/2, 1, 2, 3, 4 by pressing down(delete) button again to make sure your selecting.

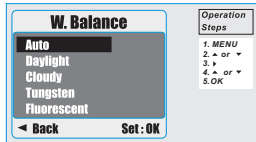
In Playback Mode:Deleting the single image can be done by pressing down this button and OK Button.

Effect Setting (Default : Standard) Still Image Mode & Movie Mode



| Effect | Description |
|----------|---|
| Standard | No effect is added to the picture. |
| Vivid | Turn the image into vivid color saturation. |
| Sepia | Turn the image into yellowish brown. |
| B&W | Turn the image into black and white. |

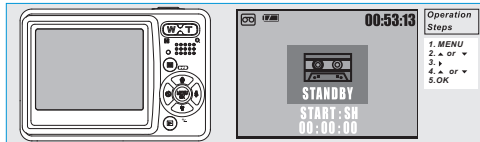
Video White Balance Setting (Default : AUTO) Still Image Mode & Movie Mode



The White Balance options are provided as follows:

| | | |
|-----|-------------|---|
| AWB | Auto | Adjusting the white balance automatically |
| ☀️ | Daylight | Under the strong light environment |
| ☁️ | Cloudy | Under the cloudy light environment |
| 💡 | Tungsten | Under the tungsten light environment |
| 💡 | Fluorescent | Under the fluorescent light environment |

3.2 Under Voice Recording Mode (🎙️)

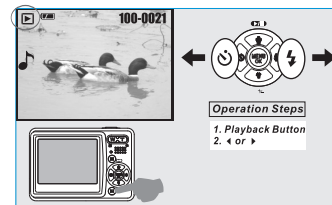


This function allows you to record sound as a tape recorder once the shutterbutton is pressed down. The length of the recording time depends on the available memory capacity.

Note:
You can connect camera with other audio player or PC by USB cable to play and check the voice recording file.

3.3 Under Play back Mode (▶️)

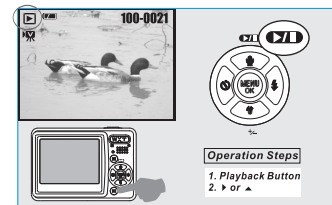
▶️ Playback of Still Image



- ▶️ Please press Playback Button to view the images taken.
- ▶️ Press the Right or Left Button to go to or back to the next or last image.

Note:
The icon (🎵) shows up when viewing still image comes with a voice memo.

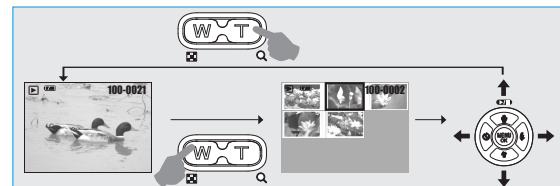
▶️ Playback of Movie Clip



- ▶️ Press Playback Button to play the movie clips.
- ▶️ Press the Up Button to play or pause the movie clip.

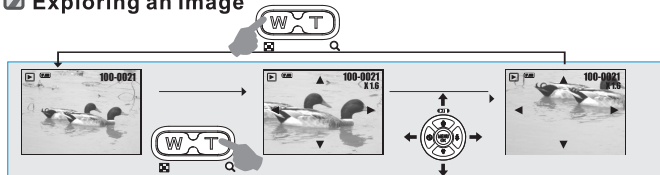
Note:
The icon (🎬) on the left of the LCD Monitor represents a Movie clip, not still image.

▶️ Thumbnail Display (Small Images)



- ▶️ Thumbnail Display is a convenient tool for you to find the image you took from the list. You can press WIDE Button to have Thumbnail Display.

▶ Exploring an Image



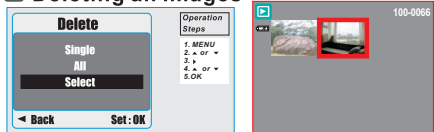
1. Press down the TELE Button and you can see the enlargement of the image.
2. Use the TELE/WIDE Button to zoom in or to zoom out.
3. Use the UP/DOWN/LEFT/RIGHT Button to locate the position you would like to review.
4. Press down the WIDE Button to return to the original Playback Mode.

▶ Setting Image Protection



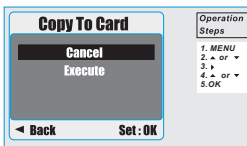
- ✦ This function allows you to prevent your specific images from being deleted if the "LOCK" under "PROTECT" list is selected. Conversely, you can select "Cancel" to cancel the protection.

▶ Deleting all Images



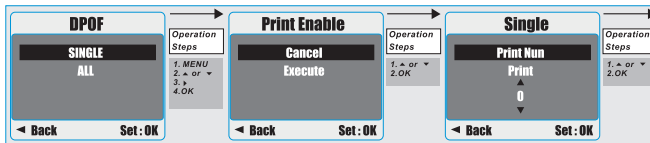
- ✦ You can delete selected images and all images once with this function.

▶ Copy to Card



- ✦ This function allows you to put all images stored in the internal memory into the memory card.

▶ DPOF-STANDARD



- ✦ This option allows you to put the print quantity (MAX. 30 pcs) on your memory card. [SINGLE] - specifies the number of copies for a selected image and you can press LEFT/RIGHT Button to go to next image. [ALL] - specifies the number of copies for all pictures apart from movie clips and voice recording files.

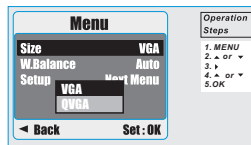
Note:

You cannot see the "PRINT" function on the LTPS LCD Monitor if a memory card is not inserted.


3.4 Under Movie Clip Mode (▶) (▶)

▶ Video Size Setting

The video size options are provided as follows: VGA / QVGA



3.5 SETUP Settings



| Setup | |
|------------|----------|
| Auto off | 3.Min. |
| Language | English |
| Format | Net Menu |
| Date Input | On |
| Imprint | off |
| ◀ Back | Set: OK |

| Setup | |
|-------------|----------|
| Beep | On |
| Light Freq. | 60Hz |
| Q.View | On |
| Sys. Reset | Net Menu |
| USB | Printer |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

Note:
 1. Auto Off
 2. Language
 3. Format
 4. Date Input
 5. Imprint
 6. Beep
 7. Light Freq.
 8. Q. View
 9. Sys. Reset
 10. USB

▶ Auto Off

The camera will be automatically off once having been operated for the time interval you set.

This setting helps avoid some unnecessary power consumption.

| Setup | |
|----------|---------|
| Auto | 1 Min. |
| Language | English |
| Format | 3 Min. |
| Date In | 5 Min. |
| Imprint | off |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

▶ Language

1. English
2. French
3. German
4. Italian
5. Spanish
6. Portuguese
7. Traditional Chinese
8. Simplified Chinese
9. Japanese
10. Thai
11. Turkish
12. Russian

| Setup | |
|----------|----------|
| Auto | 3 Min. |
| Language | English |
| Format | Menu |
| Date In | Francais |
| Imprint | Deutsch |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

▶ Format

This function allows you to format the memory card and internal flash memory easily.

| Setup | |
|----------|---------|
| Auto | 3 Min. |
| Language | English |
| Format | Cancel |
| Date In | Execute |
| Imprint | off |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

▶ Date Input

You can press Up key to make Date Type settings.

1. YY/MM/DD
2. MM/DD/YY
3. DD/MM/YY



| Setup | |
|----------|---------|
| Auto | 3.Min. |
| Language | English |
| Format | Menu |
| Date In | Set |
| Imprint | off |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

▶ Imprint

This option allows you to print out the images with date.

| Setup | |
|----------|-------------|
| Auto | 3.Min. |
| Language | Off |
| Format | Date Only |
| Date In | Date & Time |
| Imprint | off |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

▶ Beep

This option allows you to switch on/off button sound.

| Setup | |
|-------------|---------|
| Beep | On |
| Light Freq. | 60Hz |
| Q.View | On |
| Sys. Re | On |
| USB | Printer |
| ◀ Back | Set: OK |

Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK

▶ Light Freq.

The Light Frequency setting is for Anti-flicker.

- 50Hz: UK, Germany, Italy, Spain, France, Netherlands, China, Japan, Portugal.
 60Hz: U.S.A., Taiwan, Korea, Japan.

| Setup | |
|-------------|---------|
| Beep | On |
| Light Freq. | 60Hz |
| Q.View | On |
| Sys. Re | 50Hz |
| USB | Printer |
| ◀ Back | Set: OK |

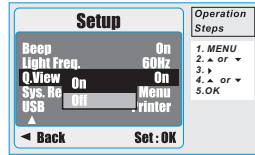
Operation Steps
 1. MENU
 2. ▲ or ▼
 3. ▶
 4. ▲ or ▼
 5. OK



Note: If select wrong frequency, the pictures will appear some horizontal flicker in artificial light source environment.

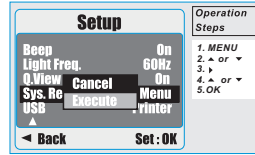
Q. View

If Q.View is on, you can view the image you just captured on the LCD display. [OFF]: You cannot view the picture you just take r the LCD display.



Sys. Reset

This option provides the function of recalling all default values except the Date, Time and Language.



USB

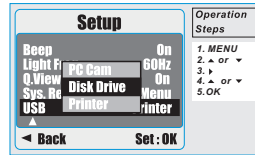
With the connection of the Printer, the PC Cam and Disk Drive, you have to select the right function and connect to right device.

(1) PC Cam:

- Please install the PC Cam Driver on your computer.
- Select your USB setting as PC Cam.
- You can start PC Cam function after you set up the MSN messenger or AMCAP.

(2) Disk Drive: When selecting Disk Drive, you can have a new movable disk for downloading your photos on your PC.

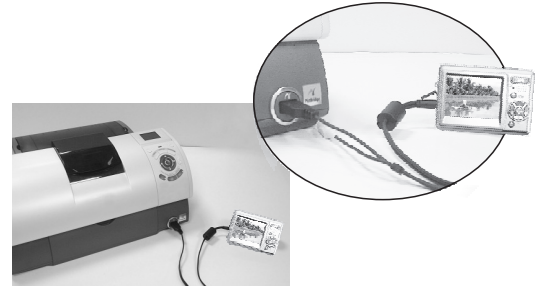
(3) Printer: With the connection of the printer supporting PictBridge function, you can select the detailed options of printer.



Printer Connection (PictBridge Mode)

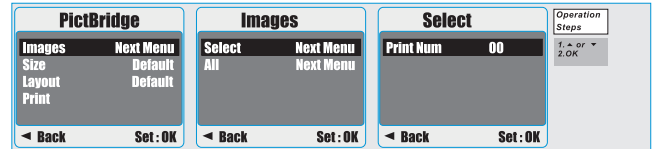
Connecting the Camera to a PictBridge-supported Printer

If the printer you have supports the interface of PictBridges, then you can have your camera connected with the printer by the supplied USB cable to have the stored images print out directly.



- Have both of the camera and the printer power on.
- Press the MENU Button to go to SETUP Mode.
- Go to USB and select PRINTER for printer connection.
- Use the supplied USB cable to connect the camera to the PictBridge-supported printer as shown above

Select pictures to print





[SELECT]: The PictBridge function will be applied only to the picture currently displayed.

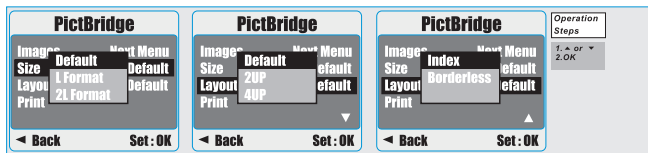
[ALL PICS]: The PictBridge function will be applied to all pictures.

Setting the Number of Copies to Print

1. Select [SELECT] or [ALL PICS]. A screen where you can set the number of copies to print will appear as shown above.
2. Press the Up/Down Button to select the number of prints. Maximum 30 prints.
3. Use the Left/Right Button to select another picture and select the number of prints for another picture.
4. After setting the number of prints, press the OK Button to save.
5. Press the Shutter Button to return to the menu without setting the number of prints.

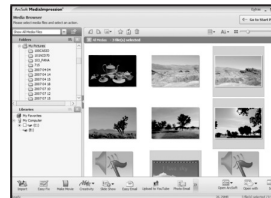
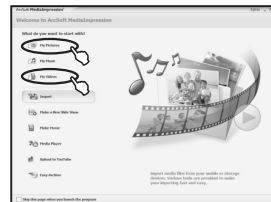
Custom Set

You can select the Paper Size, Print Layout for printed pictures.



| | |
|---------------|--|
| SIZE | Setting the size of the printing paper. It will show the size formats your printer supports. |
| LAYOUT | Setting the number of pictures to be printed on a sheet of paper |

ArcSoft MediaImpression™ manages your media for you, and gives you tons of fun and exciting ways to create and share projects featuring your photo and video files. Create your own movies or photo slide shows, edit, enhance, and add fun creative effects to your photos; and share your files easily through simple email attachments or popular photo printing and video sharing websites.



If you have question regarding ArcSoft software, please visit ArcSoft's website as following:
<http://www.arcsoft.com/en/support/index.asp>

Customer care

More information on the complete AgfaPhoto digital camera product range can be found under www.plawa.com / www.plawausa.com

Service & Repair (USA/ Canada):

1-866 475 2605

www.plawausa.com live chat available

Online Service USA/ Canada:

support-apdc@plawausa.com

Service & Repair Hotline (EU):

00800 752 921 00 (from a landline only)

Service & Support Hotline (Germany):

0900 1000 042 (1.49 Euro/ min. from a German landline only)

Online Service / International contact (Not USA/ Canada):

support-apdc@plawa.com

Manufactured by

plawa-feinwerktechnik GmbH & Co. KG

Bleichereistraße 18

73066 Uhingen

Germany

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Disposal of Waste Equipment by Users in Private

Households in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

FCC Compliance and Advisory

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1.) this device may not cause harmful interference, and 2.) this device must accept any interference received, including interference that may cause unsatisfactory operation. This equipment has been tested and found to comply with the limits for a Class B peripheral, 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 and, if not installed and used in accordance with the instructions, 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. When shielded interface cables have been provided with the product or when specified additional components or accessories have elsewhere been designated to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.