# TimelapseCam 8.0
# User Guide



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TimelapseCam 8.0®
POWERED BY WINGSCAPES

WINGSCAPES®

# STOP!

## Do not return this product to the store

If you have any questions, or experience any problems with your product, please contact WINGSCAPES customer service.

customerservice@wingscapes.com
(888) 811-WING (9464)

**Mon-Fri, 9am - 4:30pm, CST**

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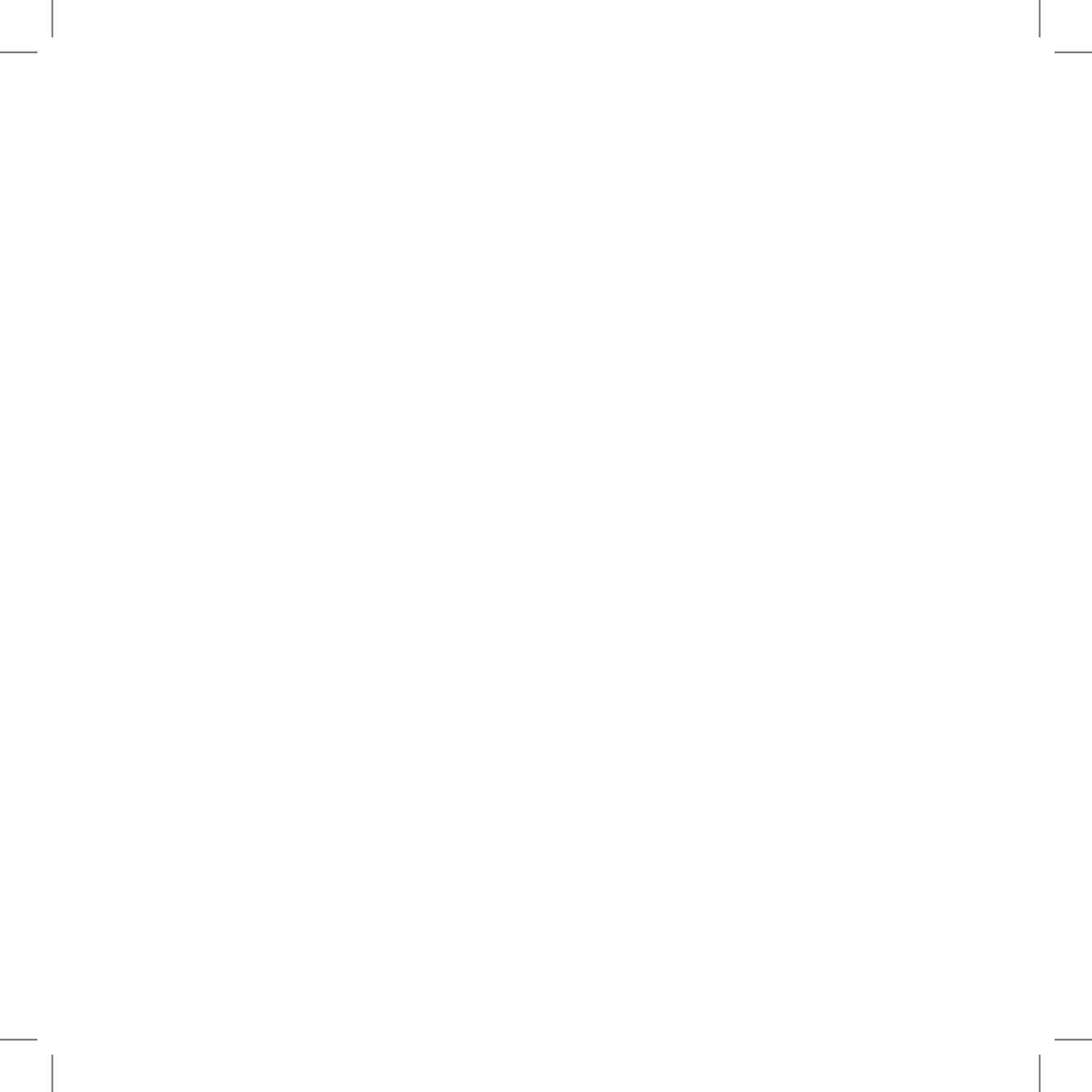
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# 1. WELCOME

This product allows you to accelerate time...to easily see things that are normally too slow to watch.

Wingscapes has designed this camera to be simple for beginning users, but also to be flexible enough to work in a variety of conditions. This is a new type of camera. Using it will require a little creativity, patience, and artfulness on the part of the user.

The easiest way to get started is to...get started. Refer to the following "Quick Start Guide" and begin experimenting with a simple setup. Custom settings allow you to optimize the camera for a variety of projects. Finding the correct combination of settings and camera placement for a given situation may require some experimentation and practice. At any time, you can reset the camera to its factory default settings in the SETUP menu.

Please take a moment to familiarize yourself with this guide and the basics of operating the camera. If at any time you need assistance or have questions about the camera's operation, please contact us via e-mail or phone.

# 2. QUICK START GUIDE

The following steps outline the quickest way to begin using your camera. We recommend that you scan the remainder of this user's guide before using your new camera.

1. Remove camera from packaging.
2. Insert four new AA batteries. Lithium AA batteries are recommended. Do not use rechargeable batteries. An SD card must be inserted for the camera to function.
3. Mount the camera so that it is level and aimed at your target. Use viewfinder to insure accurate aim. (Refer to the chapter: Mounting Suggestions)
4. Using the included tape measure, adjust the focus ring to match the distance between the camera and target.
5. Set the Rotary Dial to SETUP and press the Power/Status button to turn the camera ON.
6. Important: set the date and time before initial use.
7. Turn Rotary Dial to AUTO, close the door and secure the latches.
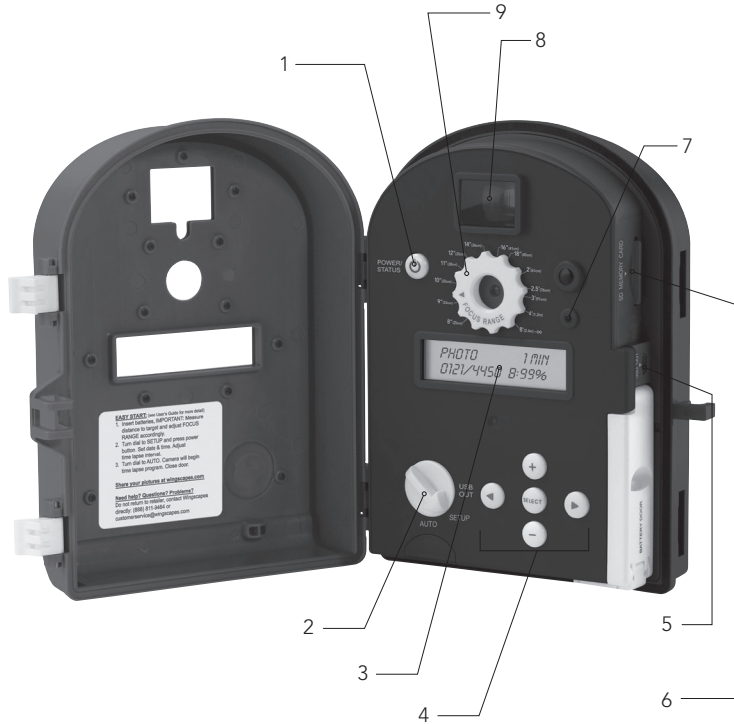
### What Happens Then?
The camera will be in the AUTO Mode. After 10 seconds, the camera will take its first photo or video and then enter a standby mode and begin to count down a time lapse interval. At the end of each interval, the camera will wake-up, take a photo or video, show status on the LCD display for 10 seconds, and then begin to count down another interval. The camera will continue taking images until either the memory is depleted or the batteries are drained.

### The Display is Blank! Why?
To save battery power, the LCD Display turns off while it counts down time lapse intervals. The LED status indicator blinks to confirm that the camera is ON. Tapping the power button will show camera status, however, this may also reset the countdown interval.

# 3. DEFINITIONS

**1. Power/Status button** — Turns the unit ON or OFF.
- To turn ON you must press and hold the Power/Status button until the LCD display activates.
- To turn OFF you must press and hold the Power/Status button until the LCD display goes off.
- To see the status of the camera, click the power button quickly (warning: if camera is within 15 seconds of taking its next photo or video, pressing this button will reset the time lapse timer)

**2. Rotary Dial** — Depending on the position of the dial, there are 3 possible functions: AUTO, SETUP and USB OUT.

**3. LCD Display** — Display turns off during time lapse interval.

**4. Function buttons**

### *SELECT button*
Used to confirm selections in the SETUP menu.

### *+ or – button*
Used to change the setting values within the SETUP mode.

### *LEFT ( ◁ ) button*
Used to choose previous settings in SETUP mode.

*RIGHT ( ▷ ) button*
Used to choose next settings in SETUP mode.

**5. USB OUT port** — To plug USB cable to connect to a computer.

**6. SD MEMORY CARD slot** — An SD card must be inserted for the camera to function. Note: The metal contact of your card should be facing down when inserting. Always turn camera OFF when inserting or removing SD cards.

**7. Status/Standby Indicator** — When the camera is in AUTO mode, it flashes every 3 seconds to indicate that the camera is powered ON. To see the status of the camera, click the power button quickly (note: if camera is within 15 seconds of taking its next photo or video, pressing this button will reset the time lapse timer).

**8. Viewfinder** — Use this to aim the camera.

**9. Focus Range Setting** — Set focus carefully. Focus is especially critical at short distances. It is best to use a tape measure.

# 4. MOUNTING SUGGESTIONS

Because it will be used in a wide variety of applications, this camera was designed to be extremely versatile with regard to mounting.

## TRIPOD MOUNTS:
There are two standard tripod mounts embedded into the camera case. Either will attach to a standard tripod or our specialty mounting bracket.

## SPECIALTY MOUNTING BRACKET:

The specialty mounting bracket was designed to clamp to almost any pole, post, stake, or fence. If the rear clamping plate is removed from the bracket, the bracket can be mounted directly to any stable surface (e.g. – you can use wood screws to mount it to a wall). You can also thread the included strap through the rear of the mounting bracket to secure the bracket to a tree.

## STRAPS & CORDS:

The included 1" x 36" black strap can be attached to the mounting points on the back of the camera and used to secure the camera directly to a tree. Stretch "bungee" cords, straps, and plastic "zip-ties" have all proven useful accessories for mounting the camera.

# 5. AUTO

In the AUTO mode, the camera takes photos or videos according to the settings chosen in the SETUP menu. When the Rotary Dial is turned to AUTO, the camera status is displayed for 10 seconds, then the first photo or video is captured, then the camera enters STANDBY mode and begins counting down its time lapse interval (note: the display will turn off). At the end of the interval the camera will wake up, count down for 5 seconds (Fig. 1) and then record a photo or video.



Fig. 1

When a picture or video is recording the LCD will show "CAPTURING" (Fig. 2).



Fig. 2

After capturing, the LCD display shows for 10 seconds (Fig. 3).



Fig. 3

Then the camera returns to STANDBY mode again. The red LED indicator will flash every 3 seconds to indicate that the camera is powered ON, but is in a delay interval.

To display the camera status when it is in STANDBY mode, press the Power/
Status button. It will not affect the delay interval unless the timer is within 15
seconds of the next event. If the button is pressed within 15 seconds of the end
of a delay interval, the status will display and the interval will start over.

### *Memory Full*
In the AUTO mode, if the LCD shows "MEM FULL!", it means that the SD
card is full. The camera will shut down automatically.

### *Low Battery*
In the AUTO mode, if the LCD shows "LOW BATTERY", it means that the
battery is low. The camera will shut down automatically. Please replace the
batteries.

# 6. SETUP

### *TURN POWER ON*
Turn the rotary dial to the SETUP position. Press and hold the Power/Status button. The SETUP MENU window will appear in the LCD display.

### *TURN POWER OFF*
If you want to turn the unit off simply press and hold the Power/Status button again until the LCD display goes off. Note: in SETUP and USB modes. If there is no activity for 2 minutes, the camera will automatically shut off to conserve battery life.

### *SETUP MENU*
The SETUP menu allows you to program the behavior of the camera. The SETUP menu will start with TIME LAPSE INTERVAL. In the SETUP menu, use the RIGHT ( ▷ ) and LEFT ( ◁ ) buttons to move through the menu. Press the + or – buttons to change the settings. Press the SELECT button to save changes.

### *TIME LAPSE INTERVAL*
Press + or – button to choose between 11 different settings: 10 SEC, 30 SEC, 1 MIN, 5 MIN, 10 MIN, 15 MIN, 30 MIN, 1 HOUR, 3 HOUR, 6 HOUR or 1 DAY. This determines the delay interval between each shot. (Note: Battery life will be diminished when using 10 sec. and 30 sec. intervals.) Press the SELECT button to save changes. Press the RIGHT ( ▷ ) button to go to the next setting.

## *PHOTO OR VIDEO?*

Press + or – buttons to choose between PHOTO and VIDEO. Press the SELECT button to save changes. Press the RIGHT ( ▷ ) button to go to the next setting.

## *PHOTO QUALITY*

Press the + or – buttons to choose between the different photo resolutions. Press the SELECT button to save changes. Press the RIGHT ( ▷ ) button to go to the next setting.

| Photo Quality | | | |
|---|---|---|---|
| Setting | Resolution in pixels | Megapixels | When to use this setting: |
| LOW | 640 x 480 | 0.3 | This setting will allow you to fit the maximum number of images on your memory card. This is a perfect size for making standard definition time lapse videos that will be viewed on a computer. |
| WIDE HD | 1920 x 1080 | 2.0 | This is the best setting to use for hi-def videos to be viewed on a TV or computer. |
| HIGH | 2592 x 1944 | 5.0 | This setting uses the full native resolution of the camera's image sensor and will result in the highest quality image. Suitable for printing photos up to 8 x 10 inches. |
| MAX | 3264 x 2448 | 8.0 | Interpolation is used to increase the resolution of these images. Use this setting when memory card capacity is not a concern and you want to print photos larger than 8 x 10 inches. |

### *MULTI-PROGRAM?*

This feature allows you to program up to 4 separate times each day that the camera is active. For example, you can set the camera to take images every morning and evening, but not in the middle of the day (good for wildlife). Press the + or – buttons to make selection. Press the SELECT button to save changes. Press the RIGHT ( ▷ ) button to go to the next setting.

### *PROGRAM WAKEUP & SLEEP*

This lets you specify what time the camera starts and stops taking pictures each day. You can choose between 24 different settings: any hour from 1 AM to MIDNIGHT. Press the + or – buttons to make your selection. Press the SELECT button to save changes. Press the RIGHT ( ▷ ) button to go to the next setting.

### *IMPRINT INFO?*

Select YES to imprint the time lapse interval, camera name, date and time on the bottom of your photos. Note: if YES is selected while camera is programmed to take VIDEO, the camera will take a photo with imprinted info before each video clip. Press the + or – buttons to make selection. Press the SELECT button to save changes. Press the RIGHT ( ▷ ) button to go to the next setting.

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### *DATE/TIME*

SETTING THE DATE & TIME IS CRITICAL! THE TIMELAPSECAM CAN NOT
OPERATE PROPERLY UNLESS THE DATE & TIME HAVE BEEN SET.
Press the + or – buttons to make selection. Press the SELECT button to save
changes. Press the RIGHT ($\triangleright$) button to go to the next setting.

### *CAMERA NAME*

This feature allows you to imprint your photos with a personalized camera name
(e.g. - "CAMERA 1"). Note: you must choose "YES" in the "IMPRINT INFO?"
setting for this to appear. Press + or – button to choose the first character:
"0"-"9", "-", " " (space) or "A"-"Z". Press the SELECT button again to make
selection and proceed. Repeat process until camera name has been set. Press
the SELECT button to save changes. Press the RIGHT ($\triangleright$) button to go to the
next setting.

### *WHITE BALANCE*

Press + or – buttons to choose setting that is best suited for your light
conditions:  AUTO, SUNLIGHT, CLOUDY, FLUORESCENT or TUNGSTEN. Press
the SELECT button to save changes. Press the RIGHT ($\triangleright$) button to choose
next settings.

### *ERASE IMAGES?*

Press + or – buttons to choose between YES and NO. If you choose YES, your SD memory card will be erased and reformatted.

Note: erased images cannot be restored. Make a backup if needed. Press the SELECT button to save changes. Press the RIGHT ($\triangleright$) button to go to the next setting.

### *UPGRADE FIRMWARE*

Press + or – button to choose between YES and NO. Choose YES to upgrade the firmware through a SD memory card. Press the SELECT button to save selection. Press the RIGHT ($\triangleright$) button to choose next setting. Firmware updates will be available periodically at wingscapes.com. To determine which firmware version is installed on your camera, set dial to PLAYBACK, hold down the SELECT button while pressing the POWER button. The firmware version will display on the screen.

### *RESET TO DEFAULT SETUP?*

Press + or – buttons to choose between YES and NO. Choose YES to reset the camera to the default settings. Press the SELECT button to save selection. Press the RIGHT ($\triangleright$) button to choose next setting.

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| Default Settings | |
|---|---|
| TIME LAPSE INTERVAL: | 1 HOUR |
| PHOTO OR VIDEO: | Photo |
| PHOTO QUALITY: | WIDE HD 1920 x 1080 |
| MULTI-SHOTS?: | 1-Shot |
| DAILY WAKEUP: | Midnight |
| DAILY SLEEP: | Midnight |
| IMPRINT INFO: | Yes |
| DATE/TIME: | 01/01/99 12:00am |
| CAMERA NAME: | TIMELAPSECAM |
| WHITE BALANCE: | AUTO |

# 7. USB OUT

## USB VIEWING

Photos and videos can be downloaded from the camera's SD memory card directly to a computer by using the USB OUT port. Note: The USB OUT jack is not active in AUTO mode.

To connect the camera to a computer, the camera must be ON and the rotary dial in the SETUP position. Connect the USB cable between the USB OUT port and your computer. Your computer will recognize the new device automatically. Wait until the computer finishes installing the driver.

Double click on the My computer icon on your desktop (or Finder in Mac OS). You will see a new icon named "TIMELAPSECAM". Double click the icon and select the folder "DCIM" and then "100_WSTL", all your images will be stored in this folder. When the USB cable is disconnected the camera will go back to SETUP mode.

# 8. SD MEMORY CARDS

Your camera requires an SD Memory Card in order to take images. This is the most common type of memory card and can be purchased at most electronic, office supply, and convenience stores, or directly from Wingscapes at wingscapes.com or by calling 888-811-WING (9464).

| Memory Chart* | | |
|---|---|---|
| Resolution | Picture count stored on a 2GB SD Card | Picture count stored on a 16GB SD Card |
| LOW 640 x 480 | 10,900 | 89,500 |
| WIDE HD 1920 x 1080 | 3,200 | 26,000 |
| HIGH 2592 x 1944 | 1,700 | 14,200 |
| MAX 3264 x 2448 | 960 | 7,800 |
| VIDEO 640 x 480 | 270 | 2,200 |

*Estimates. Actual capacity will vary based on image properties.*

**IMPORTANT:** Always turn the unit off when inserting or removing an SD memory card to avoid damage and ensure that the camera properly updates the memory information.

# 9. SPECIFICATIONS

| | |
|---|---|
| **Operational Modes:** | AUTO – Automatic Timelapse operation<br>SETUP – Customize menu settings<br>USB OUT – Download images to computer |
| **Video Files:** | 640 x 480, 10 second clips, 30 fps; 1080 HDp with CD |
| **Photo Files:** | File Type: JPEG<br>LOW (640 x 480)<br>WIDE HD (1920 x 1080)<br>HIGH (2592 x 1944)<br>MAX (3264 x 2448)<br>(see MEMORY CHART on page 22) |
| **Memory Card:** | Up to 32 GB SD or SDHC memory cards |
| **Image Output:** | USB OUT, SD Memory Card |
| **USB Output:** | Requires PC with Windows 2000/ME/XP/Vista/Windows 7 |
| **Power Supply:** | Four (4) standard alkaline or lithium AA cell batteries. Do not use rechargeable batteries.<br>Note: Lithium batteries will offer extended battery life.<br>Camera may also be powered by Wingscapes external power accessories (9V - 12V DC 250mA). |

# 10. ADDITIONAL INFORMATION

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 undesired operation.

This product label can be found near the battery compartment.

**WINGSCAPES**
150 Industrial Road
Alabaster, AL 35007
www.wingscapes.com
1-888-811-WING (9464)

Model Number:
WSCT01-00114

Serial Number:

Manufactured by Wingscapes,
a division of PRADCO
Outdoor Brands.

No user serviceable parts
inside.

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 undesired operation.

This product complies with applicable requirements of 21 CFR 1040.10 and 1040.11.

**IMPORTANT:**
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 undesired operation.

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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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 into 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.

Changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

# 11. ACCESSORIES

The following accessories are available for use with your Wingscapes camera by visiting wingscapes.com or by calling 888-811-WING (9464):

### Picture Viewer
This hand-held picture viewer lets you view your Wingscapes camera images in the field.
**SKU:** WSVWRS001 | **UPC:** 8-58381-00107-5

### Solar Power Panel
Wingscapes Power Panel ensures a continued power source for your Wingscapes camera. Solar panel charges a 12-volt battery. 10-foot cord. Caution: When using the Solar Power Panel, you must always keep the 4 AA batteries installed to prevent damage to your camera.
**SKU:** WSCPP01 | **UPC:** 8-58381-00111-2

### SD Memory Cards
Wingscapes 2GB SD memory card is an easy way to expand the number of pictures your Wingscapes BirdCam can store.
**2G SD Cards: SKU:** WSSD2GB02 | **UPC:** 8-58381-00112-9
**4G SD Cards: SKU:** WSSD4GB04 | **UPC:** 8-58381-00113-6

### AC Adaptor

The BirdCam Indoor A/C Power Adapter lets you power the
BirdCam from a regular, indoor outlet. Eight-foot cord.
Output: 9V 250mA. Input: 120V AC Power.
**SKU:** WSPW01 | **UPC:** 8-58381-00103-7

### Mounting Bracket

The BirdCam Mounting Arm is an easy-to-use camera mount that
lets you attach the BirdCam or PlantCam to any common bird feeder
post or tree.
**SKU:** WSBR01 | **UPC:** 8-58381-00102-0

### Small Bracket

The Small Bracket camera mount allows you to easily secure your
camera to a pole or gardening stake. It also provides more flexibility.
**SKU:** WSBR02 | **UPC:** 8-58381-00110-5

# 12. SOFTWARE INSTRUCTIONS

## INTRODUCTION

In time-lapse photography a series of still images is taken at regular time intervals and then played back faster - giving the illusion that time is passing quickly. This instruction manual provides you with the general information you need to start using the Time Lapse Software to view and assemble images into a video.

For more detailed instructions relative to the operation of your camera, please refer to the instruction manual.

### System Requirements

| | |
|---|---|
| OS: | Microsoft® Windows® XP with Service Pack 2 (Service Pack 3 recommended); Windows Vista® Home Premium, Business, Ultimate, or Enterprise with Service Pack 1; or Windows 7 |
| Hard disk space: | 100MB or above |
| CPU: | Intel® Pentium® 4 or AMD Athlon® 64 processor or above |
| Memory: | 1GB of RAM |
| Connection: | Internet |

### Downloading Software

1. Insert the software CD into your computer.
2. After a few minutes, a main window will appear on the screen for installing the software.
3. Install the Time Lapse Imaging Software.

4. There will be several window prompts. Click the desired default setting options to finish the installation.

## DOWNLOADING IMAGES

1. Double click on (Time Lapse Software) to open the software.
2. Click on File.
3. Browse through your files to the folder where the time lapse images you wish to open are stored.
4. Once the file is selected, click OK.
5. The images saved in the file are now available to view through the Time Lapse Software.

Note: Before opening the time lapse images with the software, the images should be copied to a location in your local hard disk first. Accessing the images directly from the SD card or from the camera will slow down the operation of your computer.

## VIEWING IMAGES

This easy-to-use software allows you to advance through the series of images

**1. Begin/End**

When viewing pictures, clicking on these buttons will take you directly to the beginning or to the end, as you prefer.

**2. Manual View**

Click and drag moves the scroll bar to either view the image series

**3. Picture by Picture Search**

Picture Advance will allow you to view each picture in turn, one picture at a time. Ideal for precise viewing.

**4. Speed Search**

Rewind/Pause/Play buttons allow you to "play" images in sequence as well as to pause the play or rewind. Simulates a video to help spot changes.

Note: you can set speeds 1 to 8X by clicking the arrows. Speed indicated on the side.

**5. Preview Search**

Click the Search button to do an automatic preview scan of your images. The scan pauses when the software detects a change in pixel content from the last photo viewed. Detection is based on averaging picture changes so this mode will skip some images and should only be used to preview a set of images quickly. The frame counter on the slider bar turns black when searching.

Note: this is the least precise of the viewing modes but it is automatic, quick and easy.

**IMPORTANT:** The accuracy of this search is determined by the Sensitivity, Region and Step settings you select. The use of all three settings can maximize your results.

**5.1 Sensitivity**

Set to High, Medium or Low – This sets the level of pixel change the program will detect.

Note: a pixel change will occur with a color, intensity, lighting or movement so this setting is critical to obtain the desired results.

**5.2 Search Region**

A. Click on (Set Search Region) Button.

B. Minimize Search Settings screen.

C. This allows you to define a specific search area, rather than the whole photo. Just drag the red outline to the area you want to search. This allows you to focus on a very precise area if required.

D. Click (OK) to confirm your settings and exit the menu.

**IMPORTANT –** This setting will increase the sensitivity settings and could produce erratic results. Use with caution.

**5.3 Search Steps**

A. This allows for even faster scans by skipping the selected amount of images (1-50).

The higher this setting, the lower the search results as it is ignoring selected if you have a very large quantity of photos to scan.

B. Click (OK).

C. Click on Search button.

**IMPORTANT**- Since this option forces the Easy Search to "overlook" pictures it will lower the accuracy of your search if set above 1.

## TO TURN PHOTO SEQUENCES INTO TIME LAPSE VIDEO

Reasons you may want to create a video with your images:

• Makes it easier to e-mail your image sequences

• Allows you to select the range of images you want included to eliminate uninteresting images

• Allows you to store the images as a video rather than a large number of images.

**To assemble images into a Video**

1. Download time lapse images to Time Lapse Software.

   (see section on Downloading Images).

2. Click on File. You will see the following screen image.

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