

I CAN PRESENT

GREEN SCREENING



I Can Present Green Screening - Windows



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Introduction

- I Can Present is an exciting way to present information as a video. Using 'Green Screen' techniques, also known as chroma key, you can create and film your own presentations quickly and easily and then export a movie that gives similar results to those on the TV.
- I Can Present has been designed to ensure that with little previous experience, you'll be creating great looking presentations straight away.
- Create a series of slides choosing different backgrounds or import your own pictures.
- You can also add symbols by dragging them onto a slide. A variety of symbols are provided for various presentations.
- Add your own script. Enter your script into the teleprompter which automatically scrolls as you record your presentation.
- When you're ready for filming and you can choose to set up either for green screening, or for an outside studio broadcast.
- Movies are saved in a format that can be viewed on almost all computer systems and can also be imported into third-party *post production* tools where they can be prepared for publication for use on websites, entrance hall presentation screens and much more.
- We have also added in features that allow you to include news ticker and watermark.
- You can now bring presentations to life with I Can Present in your classroom.

This guide is for Version 2.0.0 or later.

Author: Roger Young MSc, Cert Ed.

System Requirements

A PC running either Windows XP SP 3, Vista SP1, Windows 7, Windows 8, Windows 10

CPU: Intel Pentium 4, 3 GHz / Athlon XP 3200+ equivalent or later.

Disk Space: 100MB of free hard disc space

Memory: 2 GB RAM, preferably minimum of 4GB

Video Card; Although not a requirement, this is strongly recommended for best results.

- 128 MB video memory
- Requires shader model 2.0
- DirectX 9 compatible recommended

If your video card does not meet the above specification then you can still use the application to create and edit the slides.

You are recommended to install the demonstration version before purchasing I Can Present in order to test your system, cameras and microphones.

Additional Requirements

A suitable USB web camera or firewire DV camcorder. You hardware may require an additional firewire card to use a DV camcorder.

We recommend the use of a chroma key screen to get the most from this software. Visit the [Kudlian Soft Website](http://www.kudlian.net) <http://www.kudlian.net> for a range of solutions.

Installing the Software

I Can Present can be downloaded directly through our website. All updates are provided through our website. Network installers for Windows, and guides for installation, can be found in the support section on the I Can Present website.

It is a good idea to download the installer before running it. You will require admin access rights to complete the installation. Follow the prompts that appear on screen from the installer.

The I Can Present application requires Microsoft .NET 3.5 Framework SP1 to be installed. If this is not present then the I Can Present installer will prompt you to download and install it.

If you wish to deploy the application over a network please refer to these [notes in the Appendix](#) or those on our website.

By default, the application will be installed into:
C:\Program Files\Kudlian Soft\I Can Present

Getting Started

- To launch I Can Present choose the application from the **Start > Programs** menu.

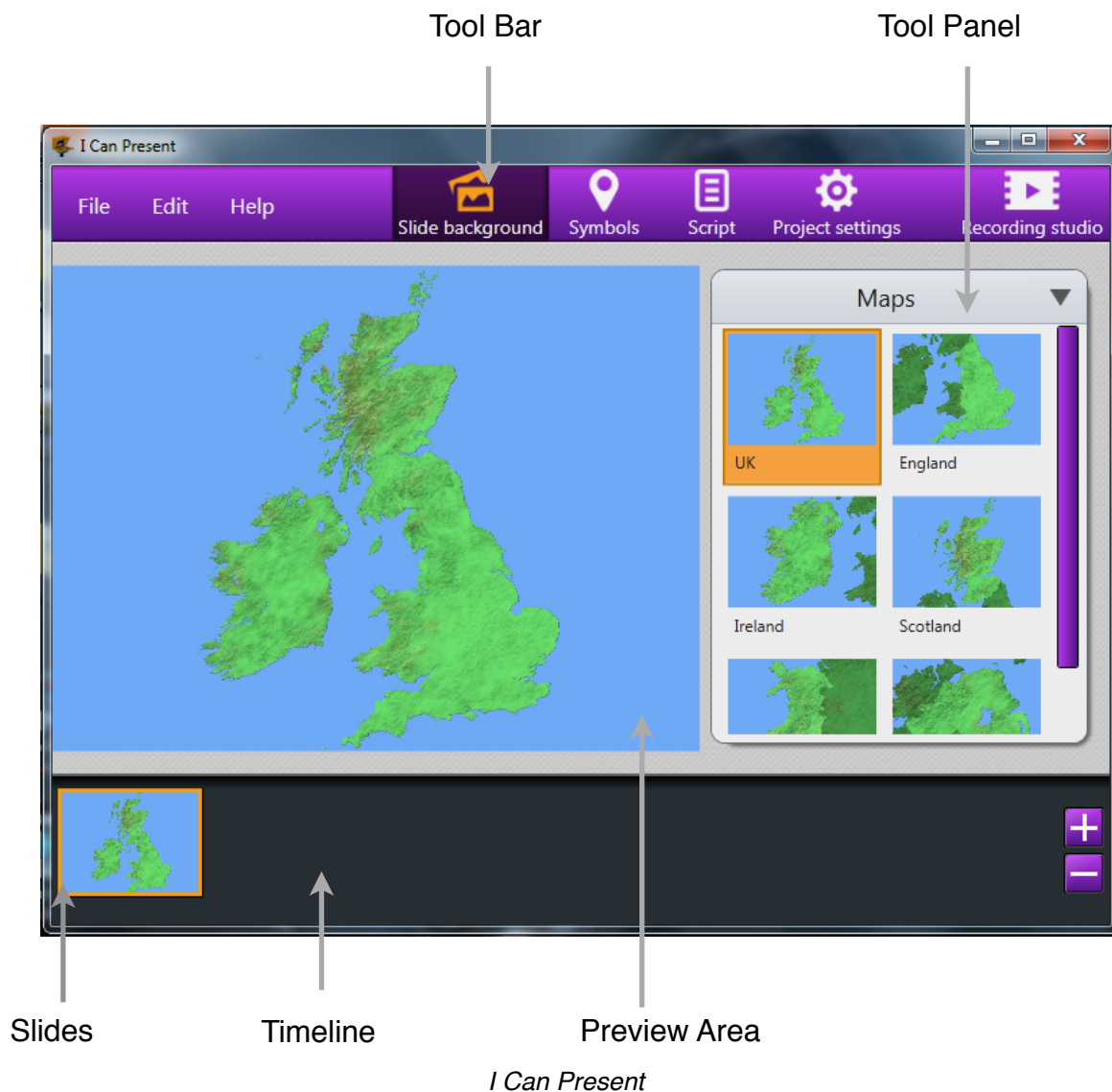
Note: If you are intending to record your presentation straight away, it is a good idea to have your camera plugged into the computer and switched on before launching I Can Present.

The Main Window

I Can Present has two main windows:

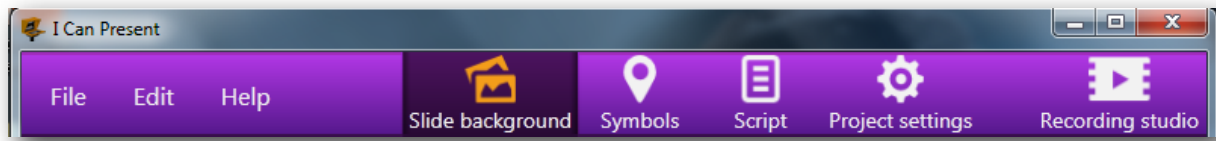
- The Slide Editor – Create and edit slides
- Recording Studio – Set up and record video

I Can Present starts by displaying the Slide Editor.



Creating and Editing Slides

Across the top of the screen is the Toolbar giving you access to the different features. By default you should have the *Slide background* selected.

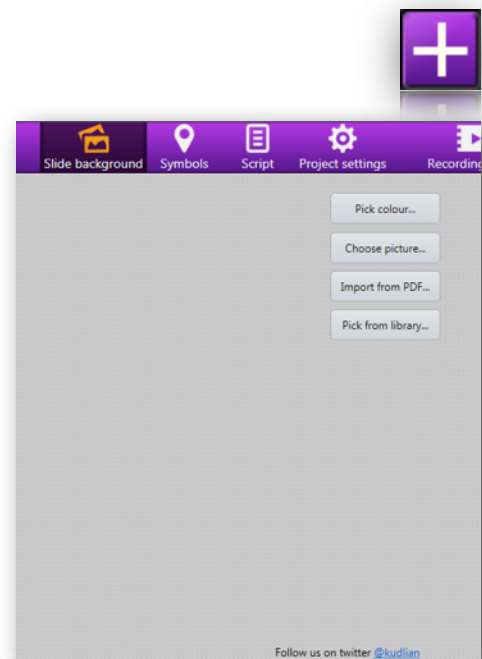


Slide backgrounds are the pictures you are going to use in the presentation. A few are supplied as examples. You can use any suitable pictures but make sure the pictures are as high a quality as possible as these will display better in your presentation.

Adding Slides

By default there will be one blank slide already in the slide view.

1. Decide which type of background you wish to use in your slide. You can choose from four options;
 - Colour - Allows you to select the background colour from the colour palette.
 - Choose Picture - opens a filer window to allow you to choose any picture.
 - PDF - opens a filer window to allow you to choose a PDF file. This could be a PowerPoint slide.
 - Pick from Library - These are the example backgrounds supplied with I Can Present.
2. Click the + button to add a new slide
3. The new slide automatically becomes selected and will be displayed in the preview area.



Deleting Slides

1. Select the slide to be deleted in the slide view at the bottom of the window.
2. Either click the – button or right click over the slide and choose **Delete** from the pop-up menu. The slide will be removed from your project.



If you have made a mistake and decide that you did not want the slide deleted, then it can be easily restored as I Can Present supports multiple undo and redo. This can be accessed through the **Edit** menu.

- Choose **Edit > Undo** from the menu bar to undo the deletion or use the keyboard shortcuts, **Ctrl Z** for undo and **Ctrl Y** for redo.

Pick a Background Colour for a Slide

A slide in the timeline can have a solid background colour instead of a picture.

1. Select a slide in the timeline to apply the colour to.
2. Click the **Pick Colour** button to open the colour palette.
3. Select a colour from the Colour palette or choose a custom colour.
4. Click **OK** to apply the colour.

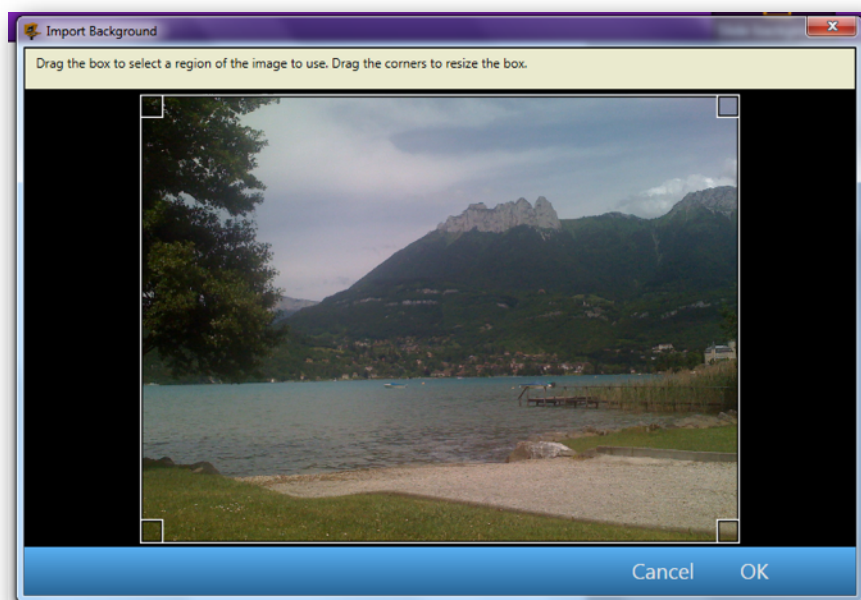
Importing Pictures to Slides

You can import most pictures into I Can Present as already indicated.

1. Select a frame in the timeline at the bottom of the screen.
2. Click the **Choose Picture** button.
3. A File Open dialogue will prompt you to navigate to the location of the picture file that you wish to import.
4. Select the file and click **Open**.



You then need to select the region of your image that you wish to display. I Can Present will allow you to import any picture.



Importing a picture

The 'wire' frame shows the area that will be used in your imported image. I Can Present will display this in the correct aspect ratio during your presentation.

Use the mouse to resize and position the frame to select the region to import.

5. Click **OK** to finish importing the image.
The image will be added to the currently selected frame in the timeline.

If this is not the background that you require at the beginning of your presentation then refer to the sections on [deleting and adding backgrounds](#).

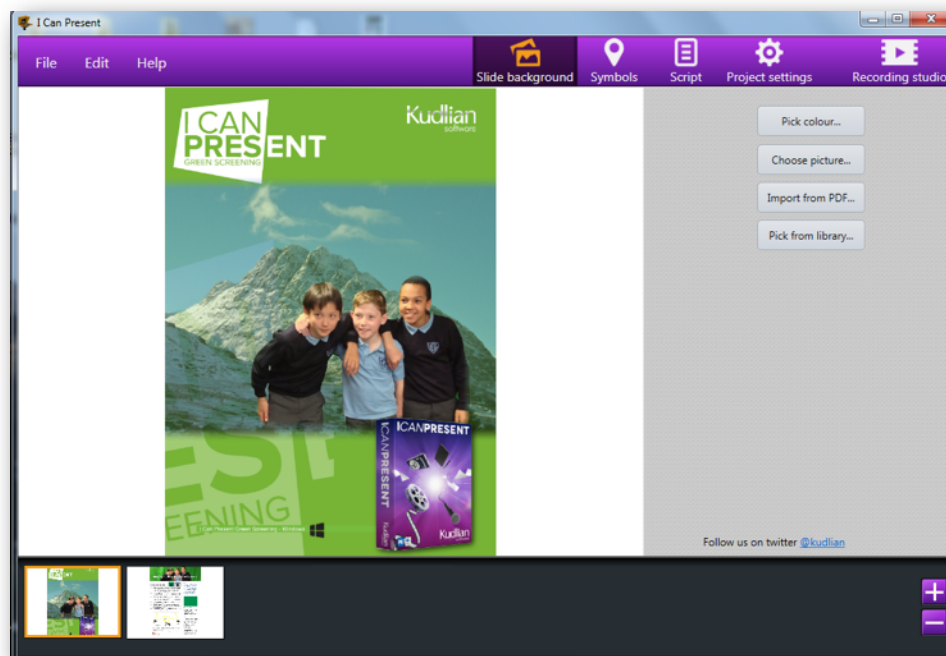
Import from PDF

You can import PDF files to use as backgrounds for your presentation. This is especially useful as it allows you to export and use files from PowerPoint presentations for example. PowerPoint slides are exported in Landscape format and are ideal for using in I Can Present.

If you import a portrait oriented PDF, it will be cropped to fit, as in the example below.

When a PDF file is imported import works differently from other background modifying buttons. The PDF import creates a new slide for each page in the pdf.

If the last slide in the project is blank, remove it, in fact any blank slide can be deleted.



Pick from library

Example graphics files are installed with I Can Present. By default this folder is installed to;

C:\Program Files\Kudlian Soft\I Can Present\Data\Library Images

To access these pictures;

- Click the **Pick from library** button.

A browser window will open allowing you to choose a folder and from within this, the picture file you wish to use.

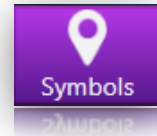
Adding Symbols to a Slide

The symbols are grouped by type and each group can be selected by clicking on the drop down menu. Symbols can be added to any slide.

There is a specific set of weather symbols that can be used in conjunction with the Maps that are installed in **library**.

To add a symbol:

- Click the Symbols button in the tool bar.



The Symbols Tool panel will be displayed.

- Click the disclosure arrow and from the drop down menu, choose a symbol set to use in your presentation

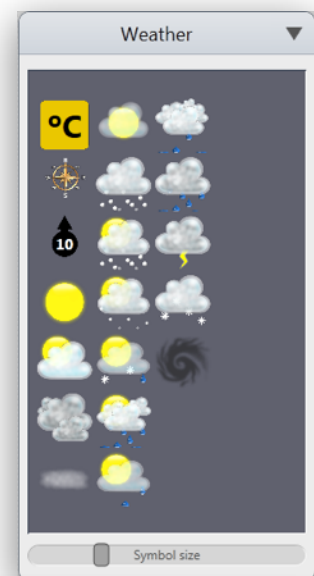


To place a symbol on your slide:

- Click and drag the symbol from the tool panel to the your slide in the preview area.

Don't worry if it is not exactly correct as you can move them around by clicking and dragging later.

Some symbols will animate once they have been dragged onto the slide.



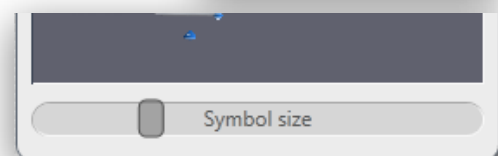
Deleting a Symbol

- Click on the symbol you wish to delete in the preview window, and then drag the symbol off the slide and release the mouse button.

Changing the Symbol Size

The size of symbols placed on the slide can be changed. This action will change the size of **all** the symbols on the current slide.

- Click on the **Symbol size** slider and drag it to the right to increase the size of the symbols and to the left to decrease the size.



Editing Symbols

Some symbols can be edited, for example temperature symbols.

Once the symbol has been dragged to the preview window, double clicking it allows you to edit any text in the symbol.

The editable symbols are **Temperature**, **Wind Speed**, **Labels** and **UV**.

Temperature

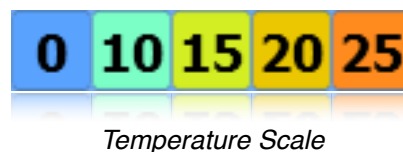
- Drag and drop the temperature symbol onto the slide in the preview window.

By default temperatures are displayed in degrees centigrade.

I Can Present can be [reconfigured to use a temperature range in degrees Fahrenheit](#). By default if installed to a computer with region set to US, the default will be in degrees Fahrenheit.

Category	UVI range	Colour
Low	0 to 2	Green
Moderate	3 to 5	Yellow
High	6 to 7	Orange
Very high	8 to 10	Red
Extreme	≥ 11	Purple

Double click the temperature symbol, and type in the value you require. The colour of the symbol will change according to the temperature you enter.



Left and Right Justified Pin Labels

These labels have a drop pin that can be placed at a particular location. When you then double click on the label's text it will become highlighted and you can then enter the text of your choice.



Wind Speed

The wind speed symbol can be changed in a similar way to all other editable symbols.

1. Drag and drop the wind speed symbol onto the slide.
2. Double click on the symbol, you can now enter your wind speed.
3. The symbol can also be rotated to show the wind direction.
4. Click and hold down the mouse button on the direction arrow, and rotate it until it points in the required direction.

UV Categories

The UV symbol also has an editable field that is edited in the same way as the other symbols. This symbol changes colour depending on the values entered.














The UV index shows the risk associated with being outside in the sun with uncovered and unprotected skin. Normally either shown as a coloured symbol or numerical value or both.

The range for UV symbols is shown in the table opposite;

It is important however to assess risk levels that you know your skin type.

WARNING: The table below is only a guideline and you should seek professional advice on your skin type to ascertain your risk. You should always take adequate protection against damaging your skin through exposure to UV.

Index	White Skin Easily Burnt	White Skin Easily Tans	Brown Skin	Black Skin
 	low risk	low risk	low risk	low risk
  	medium	low	low	low
  	high	medium	low	low
 	very high	high	medium	medium
	extremely high	high	high	medium

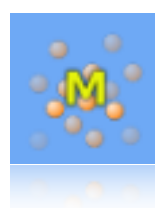
[*BBC Sun Index*](#)

Pollen Levels

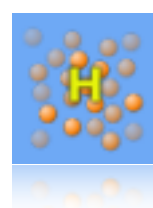
The pollen symbol shows the level of pollen in the air. There are four levels of pollen count that you can place onto your slide.



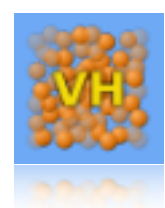
Low



Moderate



High



Very High

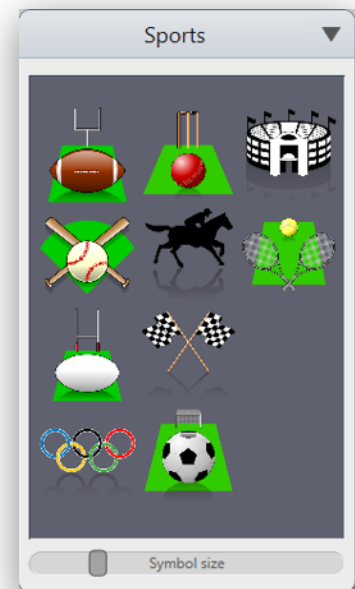
Sport Symbols

Other symbols include a number of different sports symbol that can be used in conjunction with the backgrounds and other symbols.

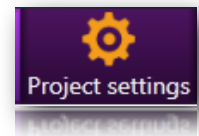
These can be accessed by clicking on the drop down menu in the symbols library and choosing **Sports** from the list.

Drag and drop the symbol you require onto the slide.

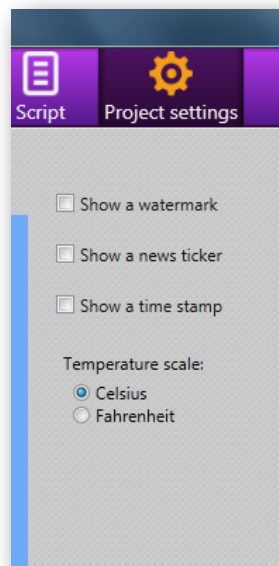
The symbol can be repositioned on the slide by selecting it with the mouse and dragging it to the new location.



Project Settings



Click the Projects settings button in the Tool bar to open the settings panel.



Show a Watermark

This allows you to import and position a watermark on your presentation. The watermark could be a group, school, or company logo and can be positioned in one of the four corners of the screen. An Image with a transparency works well.

Click the **Choose image** button to access a browser window allowing you to navigate and select your logo.

Show a news ticker

Inserts a news ticker at the bottom of the screen and displays a writeable field where you can type your 'stop press' news bulletins or information.

Items placed on a separate line will be split in the news ticker by a bullet point.

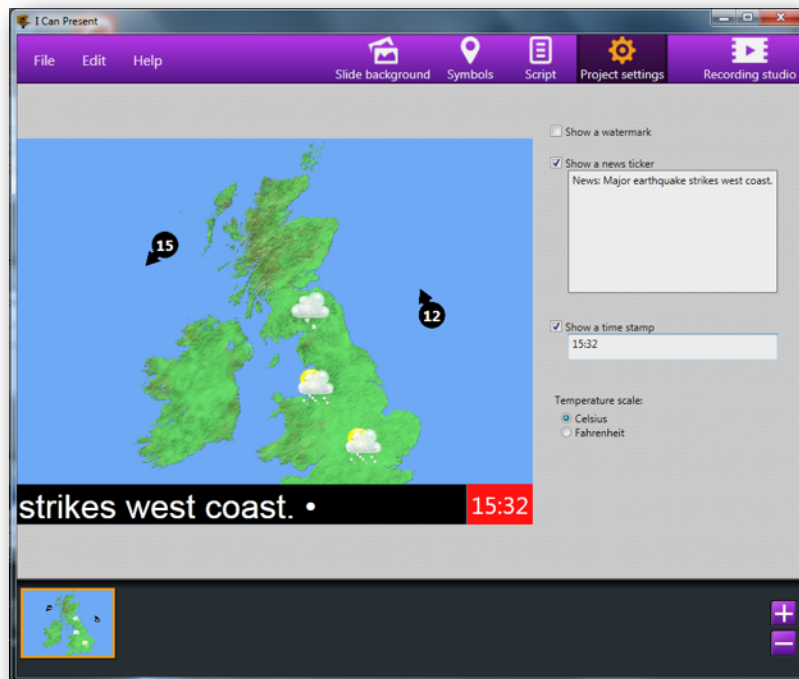


I Can Present showing News ticker and watermark in the top left corner.

Breaking News • Earthquake 8.4 • Temperatures soar into the h

Show a time stamp

Adds a timestamp to the bottom of the screen. A writeable field allows you to insert any time you wish.



Changing the Temperature Scale

I Can Present is configured to start up using degrees centigrade, unless your computer is configured to the United States regional settings.

The settings panel allows you to change this manually for the project you are working on by clicking on either the Celsius or Fahrenheit radio buttons.

Values in the symbols will then be automatically converted.

Writing a Script

I Can Present has an inbuilt teleprompter allowing you to enter a script for each individual slide.

The text can be entered in any language, and may also be cut and pasted from another application.

1. Click on the **Script** button in the Tool bar.

An empty editable frame will appear in the Tool panel.

2. If you have already typed your text for the slide you are creating into a word processor, then copy and paste it into the teleprompter.

To paste text into the teleprompter once it has been copied from your text editor,;

- use the keyboard shortcut, **Ctrl V**
- or the Paste button under the script area,

otherwise just type directly into the script frame.

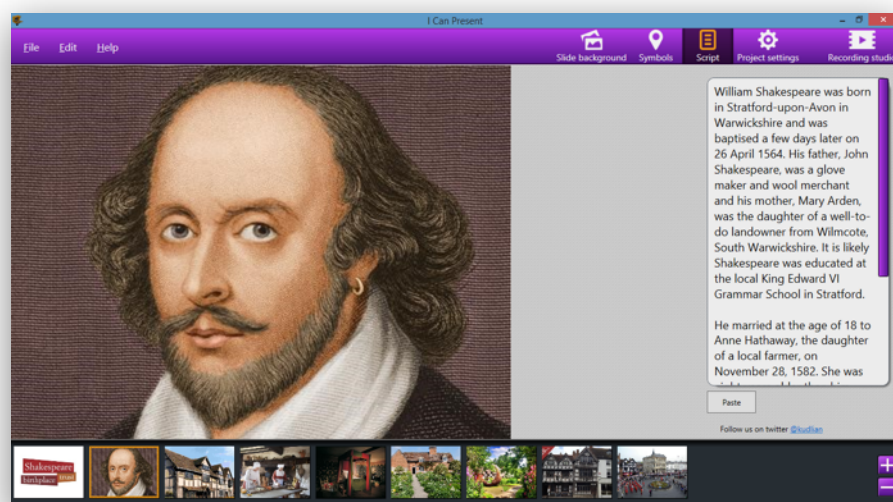
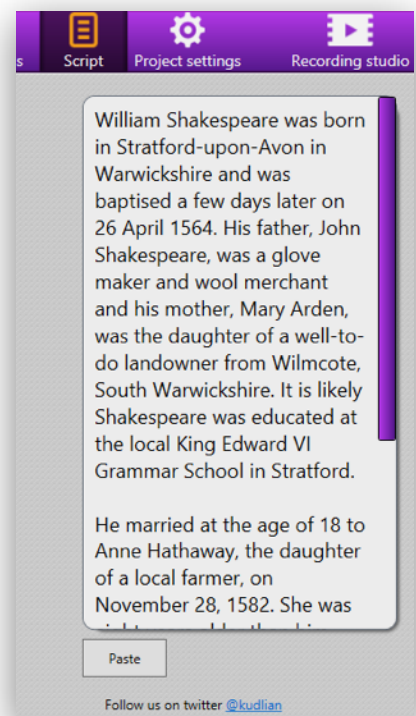
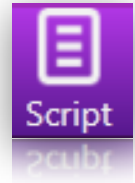
The text should contain information you are going to present for the currently displayed slide.

This might be an actual script or just bullet points to use as a prompt or reminder.

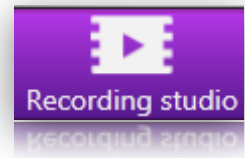
Each slide should have its own script.

If you choose another slide from the Timeline, the script panel will change to display the script for the new slide.

The script will be used in the teleprompter and will automatically scroll when you use the [Recording Studio](#) as detailed in the next chapter.



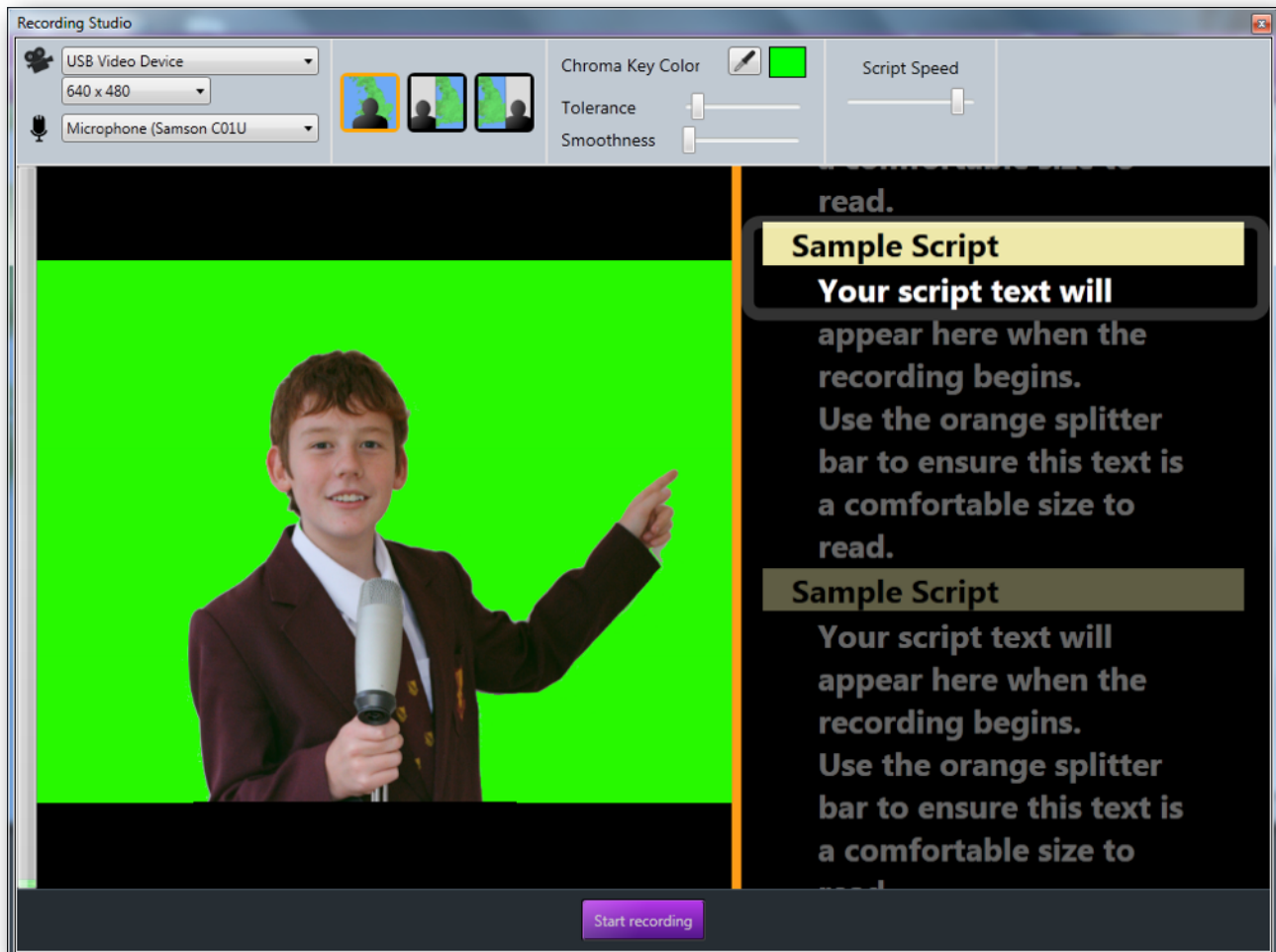
The Recording Studio



Once you have created your slides and written your script then it's time to move to the **Recording Studio**.

Click the **Recording Studio** button located to the right hand side of the Tool bar.

This screen allows you to set up 'your studio' ready to begin recording.



Recording Studio, No devices selected

The toolbar at the top of the recording studio displays a number of controls that vary depending on which devices are available, for example either a camera and/or microphone.

If no devices are available then you are reminded that a camera and/or microphone need to be selected.

If your computer has an inbuilt microphone/camera then these can be used to record a presentation, otherwise you will need to plug an external camera/microphone into the appropriate ports on your computer and ensure that you have installed the correct drivers for them.

Supported Cameras

I Can Present will work with any USB webcam* that has been correctly installed to the computer. Please ensure that you have installed any necessary drivers supplied with your camera.

“What sort of web cam should I get?”

There are a number of things to consider when trying to decide which web cam is best to use with I Can Present. You are capturing real time video so a camera with a good frame rate at a high a screen size as possible is preferable. Fifteen frames per second (15fps) at 640 x 480 would be a minimum specification, preferably 800 x 600 at 15fps, would be preferable. Some of the more modern webcams offer a full 30fps at HD. You will need to check the web cam specifications on the manufacturers website. If the camera is capturing any slower than the speeds suggested here the video capture might be less smooth.

We offer a number of cameras and our website, <http://www.kudian.net>, contains details of other cameras and how to set them up.

You can also use a DV camera that is connected via a firewire connection. Additional hardware may be required for computers not fitted with a firewire port and you will need to install any drivers supplied with the hardware.

Please note that very few USB connected DV cameras currently have the ‘live feed’ feature that is required for a direct connection. Some cameras may be able to use a separate video capture device, but you would need to test with the trial software

The software should detect these devices when they are plugged into the computer. They will automatically appear in the drop down lists for devices. If this does not happen you may find it is necessary to have the devices plugged in and switched on before launching the application.

You could also use the HD camera in your iOS or Android mobile to capture your presentation using a really useful free App, EpoCam. Check out our website for the details of how to do this

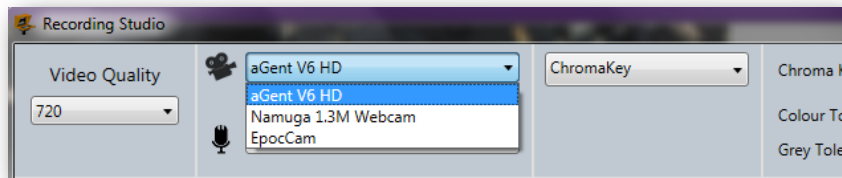
Camera and Microphone

You can use either a good quality web camera connected to the USB port of your computer or a Digital Video (DV) camcorder connected through the firewire port. It is a good idea to have the camera connected, and if necessary, switched on before launching I Can Present.

You may also require an external microphone for good sound reproduction.

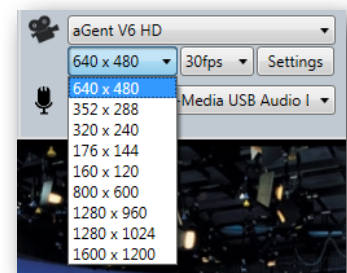
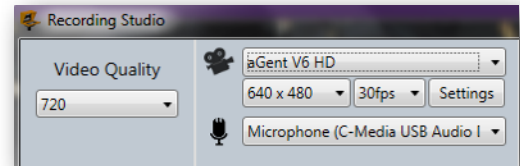
You should ensure that your subjects are well lit before starting shooting, this is especially important if you are using a [chroma key screen](#).

If the camera does not automatically appear in the camera view, click on the drop down menu and choose the camera from the list.



Toolbar with Camera Plugged-in

When a camera is plugged in and selected you will see the toolbar at the top of the recording studio window has additional drop down menus relating to the video settings. These settings are taken from the information supplied by the camera and consequently the information displayed may vary. If you use high settings you might find that your computer is not capable of processing quick enough. We have added some recommendations next to each setting.



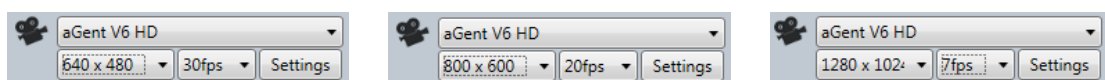
Screen Size - This displays the screen sizes that the camera is able to capture. 640 x 480 should to be the lowest and we would advise 800 x 600 is a good setting. Some cameras may be able to use a larger screen size, but this might then impact on the number of frames per second that can be captured.

Frames per Second (fps)

fps is a measure of how much information is used to store and display motion video. The term applies equally to film video and digital video. Each frame is a still image; displaying frames in quick succession creates the illusion of motion. The more frames per second (fps), the smoother the motion appears. Television in the U.K, for example, is based on the PAL format, which displays 25 interlaced frames per second. Generally, the minimum fps needed to avoid jerky motion is about 30. Some computer video formats, such as AVI, provide only 15 frames per second.

Early motion picture films used 18 frames per second and the current standard for movie films is 24 frames per second. A minimum of 15 fps is advised and the closer to 25fps, the better.

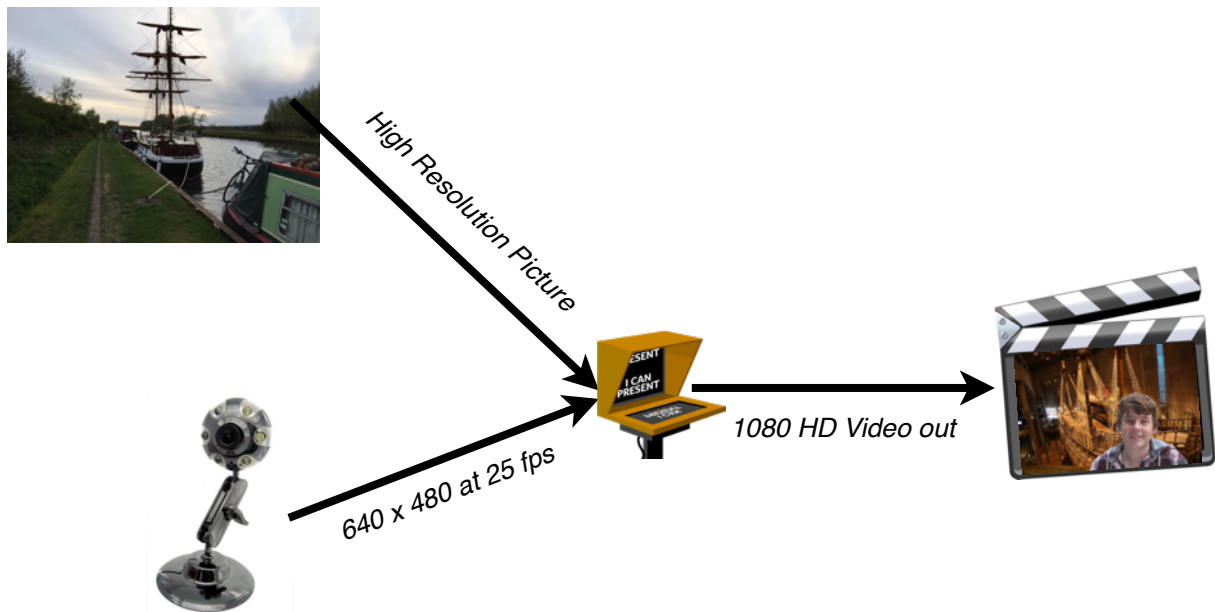
The number of frames per second that your camera is going to be able to capture might change depending on the screen size you have chosen, as can be seen in the example below.



Video Quality

This feature is especially useful as it controls the quality of the output video. During the capture of the video, the background will actually be displayed at whatever video quality is chosen irrespective of the capture video quality. This means that slides that contain text for example, will not be downgraded in quality in the final video.

In Picture in Picture the quality of the small captured video can be set quite low with a faster frame rate as the video display is quite small and quality will not really be noticed in the final output.



Settings

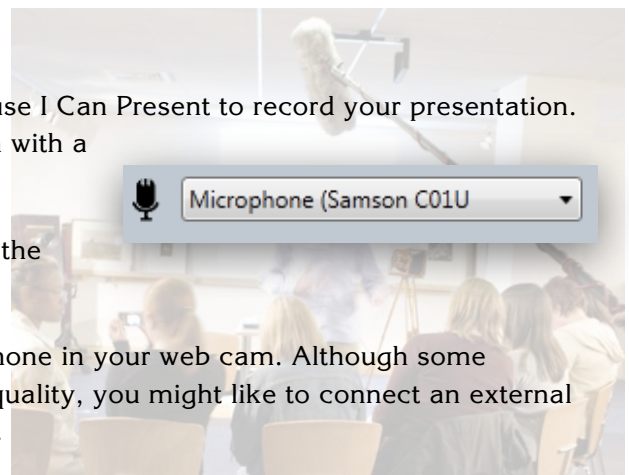
The Settings button opens a control panel where you can flip the images horizontally and vertically and also control some features such as Brightness, Contrast, White Balance, depending on what the camera allows you to do. Some cameras support a very limited set of features to control.

Microphone Only

If you do not have a camera then you can still use I Can Present to record your presentation. You can record the slides and accompany them with a voice over.

- Select the microphone you wish to use from the drop down list of audio devices.

The microphones listed will include the microphone in your web cam. Although some microphones of this type will give good sound quality, you might like to connect an external microphone or radio microphone to the system.



Getting Your 'Studio' Ready to Record

The toolbar at the top of the recording window is where we make changes to the recording settings.

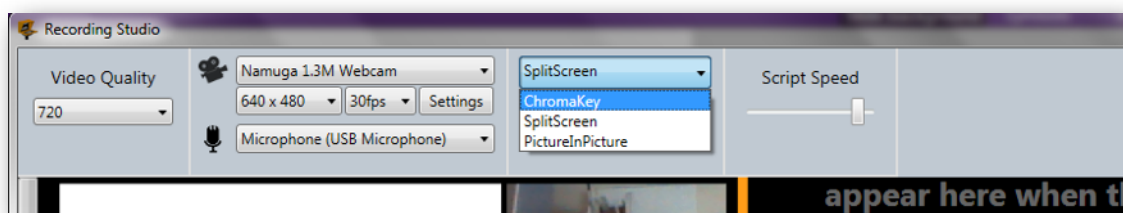
USB Video Device: Choose the camera to use for your recording from the drop down list. Unfortunately camera names are sometimes not the same as the model of camera, you may need to 'experiment'.

You can then choose the size of the video you are going to capture. The drop down list will only show what the camera is capable of capturing. This list might be affected by other changes you make in this toolbar.

Microphone: Choose the microphone you wish to use for recording. This does not have to be the microphone in the video device you are using.

Recording Layouts

I Can Present has a three main layout options to choose from, not just the chroma key feature. It can therefore be used in a number of ways to create video presentations. The layouts are accessed through the drop down menu



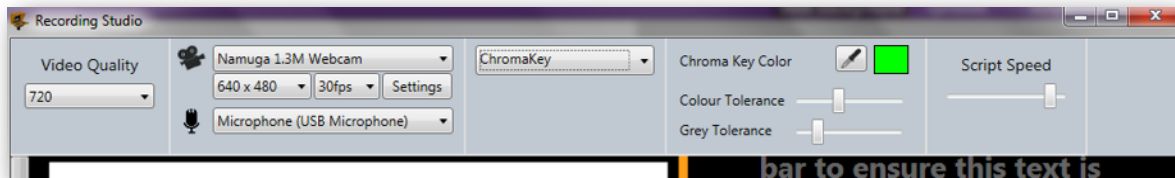
Chroma Key (Green Screen)

The chroma key option is used when you want the images in your slideshow to appear behind you during the presentation. To use the chroma key option, you will require a chroma key screen.

Chroma key is explained later in this guide. Unfortunately there are not a set of rules as all environments are different, but useful tips should make things easier. [Click here for more information on chroma keying.](#)

When this option is selected, the chroma key settings are displayed.





The slides will appear to one side of the video and the first slide will be displayed in the live video feed. The backgrounds supplied with I Can Present will be automatically sized to fit the available space.

The green screen backdrop needs to be well lit. It can be any colour you want, but you have to remember that if the background colour is for example brown, then other colours close to brown would be replaced with the background picture, skin colours for example as shown in the picture opposite.



Use the colour picker to select the colour you wish to replace.

- Click the Pipette tool, the mouse pointer will be replaced.
- Move the Pipette tool to the preview window. Move it around inside the window and notice how the colour in the colour well next to the pipette tool changes.

You need to choose a colour that is as close to that of the green screen. You may have to reselect the colour a number of times to get one that 'keys' well. The background picture from **slide 1** will replace all the areas close to the green colour in the live feed preview window.

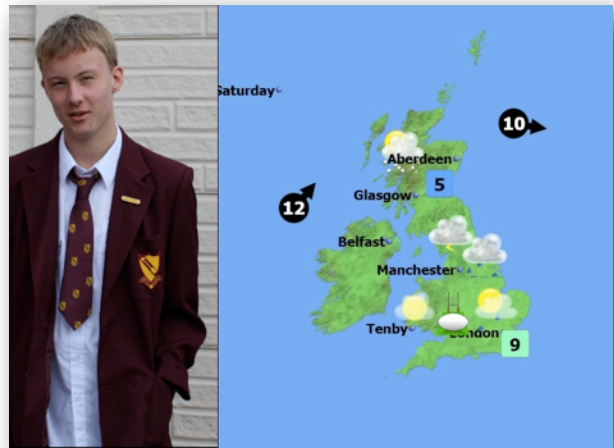
Try to remove all the green background colour by using the **Green Tolerance** slider. If you have this a long way across to the right, it might be a good idea to use the Pipette tool to try a different shade of green or look for some other cause such as poor or non uniform lighting.

You can also place your presenter into the shot to see what effect they have. The Grey Tolerance slider can be used to try to blend your presenter into the scene. As we have already indicated, there are no presets its a bit of 'trial and error', but you should be able to get a good key very quickly.

Split Screen

This option is similar to what you often see on TV when a presenter is doing an outside broadcast. In one part of the screen you have the presenter and in the other part the picture or weather forecast they are presenting about.

The split screen can be either have the video on the left or right. No chroma key is used for this setting.

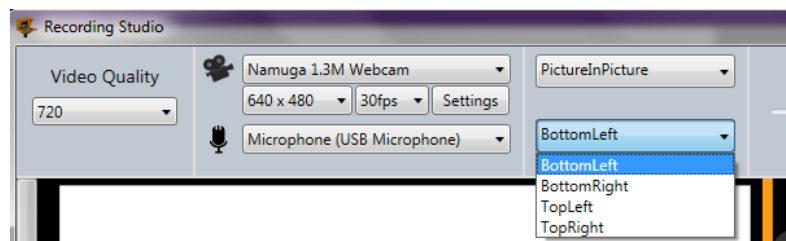


Picture in Picture

This option is similar in some ways to the Chroma key option but instead of the presenter being placed fully in front of the background slide they appear in a window. No Chroma key is required for this feature. This is ideal for using with PowerPoint slides.

PowerPoint slides can be exported as PDF files. This option can be found under the **Save As** menu in PowerPoint.

Once the PDF file has been saved, you can import it straight into I Can Present as explained in the section dealing with [Import from PDF](#).



Script - Teleprompt

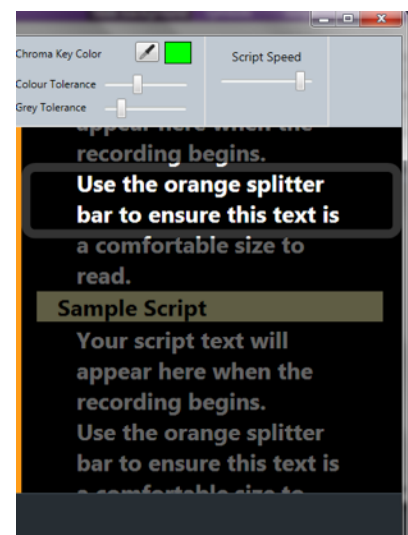
Your script will appear in the teleprompt on the right side of the window when you are recording.

Use the Script Speed slider to adjust the speed of the text.

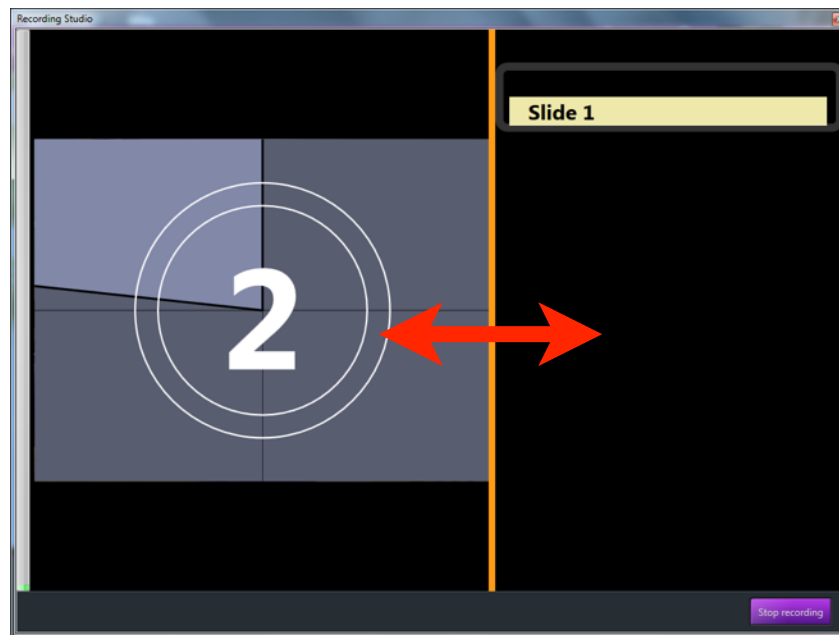
Moving it to the right increases the speed while moving it to the left decreases the speed of the scrolling text.

You should alter the speed of the scrolling text until you can comfortably read it as it appears in the grey rectangular box at the top of the teleprompt.

To alter the size of the text in the teleprompt area, drag the



orange splitter bar, to either the left or right to adjust the relative sizes of the preview and the text in the teleprompt. This does not affect the size of the exported movie.



Recording

Once you have set up everything you are finally ready to start recording.

1. Click on the record button at the bottom of the window to start recording.
2. An explorer window will open allowing you to choose the location for the file to be saved to and give the project a name.
3. The countdown timer will begin as soon as you confirm the Save location, so that you can be ready to start your presentation.



Once the countdown timer has completed, your first slide will appear in the preview and alongside it the script. The script will scroll up the right hand side of the screen.

As the script enters the grey target box you should begin speaking. When you get to the end of the script for the first slide the script prompt will stop and will not continue until you press the left hand mouse button. The recording does not stop.

When the left hand mouse button is pressed the presentation will continue to the next slide and the script for this slide will now begin to scroll up into the grey target box. You will need to do this for each slide.

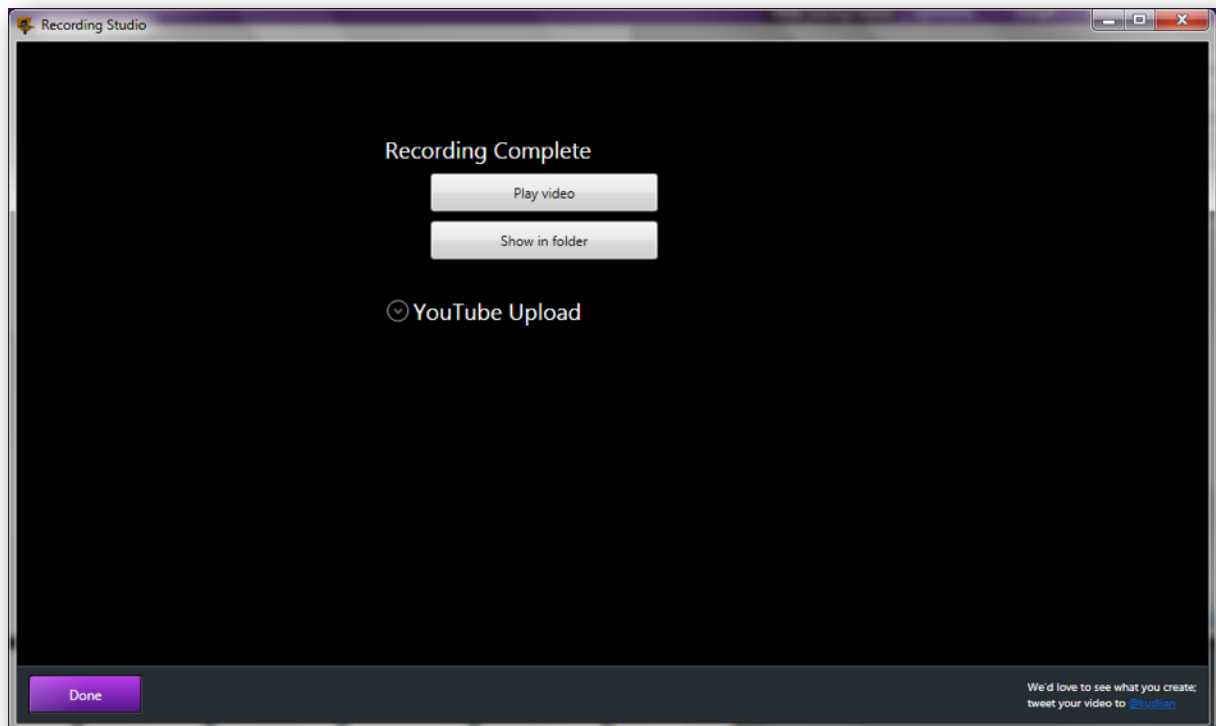
If nothing happens when you click the mouse, then make sure your mouse pointer is either in the preview or teleprompt areas of the screen.

At the end of the presentation, press the **Stop** button.

Exporting a Movie

I Can Present automatically exports WMV video files with an .wmv file extension. These files will load straight into Windows™ Movie Maker or other compatible Windows applications.

As soon as a recording is complete, I Can Present finishes saving the movie file to the location chosen and will show a window where you can choose to either;



- Play the video you have just captured,
- Show the location of the movie file in a folder.
- Upload to YouTube
- Click Done to return to the Capture screen

Loading and Saving Files



Saving an I Can Present File

You should save your project files as often as possible. Each project file saves the details for each slide, the symbols and their positions as well as any script.

Note: the project files do not save any recorded video.

Choose **File > Save** or **Save As...** from the menu bar.

A **Save As** dialogue will open allowing you to choose the location to save your file to and name the file.

I Can Present files have the file extension **.ksicp**

I Can Present files can only be used by the I Can Present application for further editing.

Opening an I Can Present File

Either:

1. Load the I Can Present application.
2. Either choose **File > Open...** or use the **File > Recent Files** submenu to choose a recently saved file.
3. If you select **Open...** a filer window will open allowing you to navigate to and select the file you wish to load.
4. Choosing the Recent Files option presents a list of files that have recently been saved from I Can Present.
5. Select the file you wish to use from the list.
6. It will then load into I Can Present and you can continue working.

or

- Double click on the I Can Present file. The I Can Present application will launch and then load the chosen file.

Chroma Key

The chroma key feature allows you to film your subject in front of a chroma key screen so that the slides will appear behind the subject, creating a professional looking presentation.

You will need to light your subject correctly to get the best results, and of course ensure that your subject is not wearing the same colours as your background chroma key screen. For example, if you are using a green backdrop then they should not be wearing a green shirt.

I Can Present displays a real time preview of the recording with the chroma key effect. This helps ensure that you have the correct set up prior to the recording.

1. Select the Chroma Key layout from the toolbar
2. Using the pipette tool choose the colour from your preview window that you wish to use as the background key.
The colour selected will appear in the colour swatch.

You will now see that the areas with colour you have chosen now display the first slide in your presentation.

You might also notice that the picture is noisy, that is to say there might appear to be some interference or picture break up. This is usually because of poor lighting.

Tolerance

The **Tolerance** slider enables you to set a tolerance for the chroma key colour. Ideally you want to set this as small as possible so that all of the background is shown. If you set it too high you may find that some of the foreground subject starts to disappear too.

Smoothness

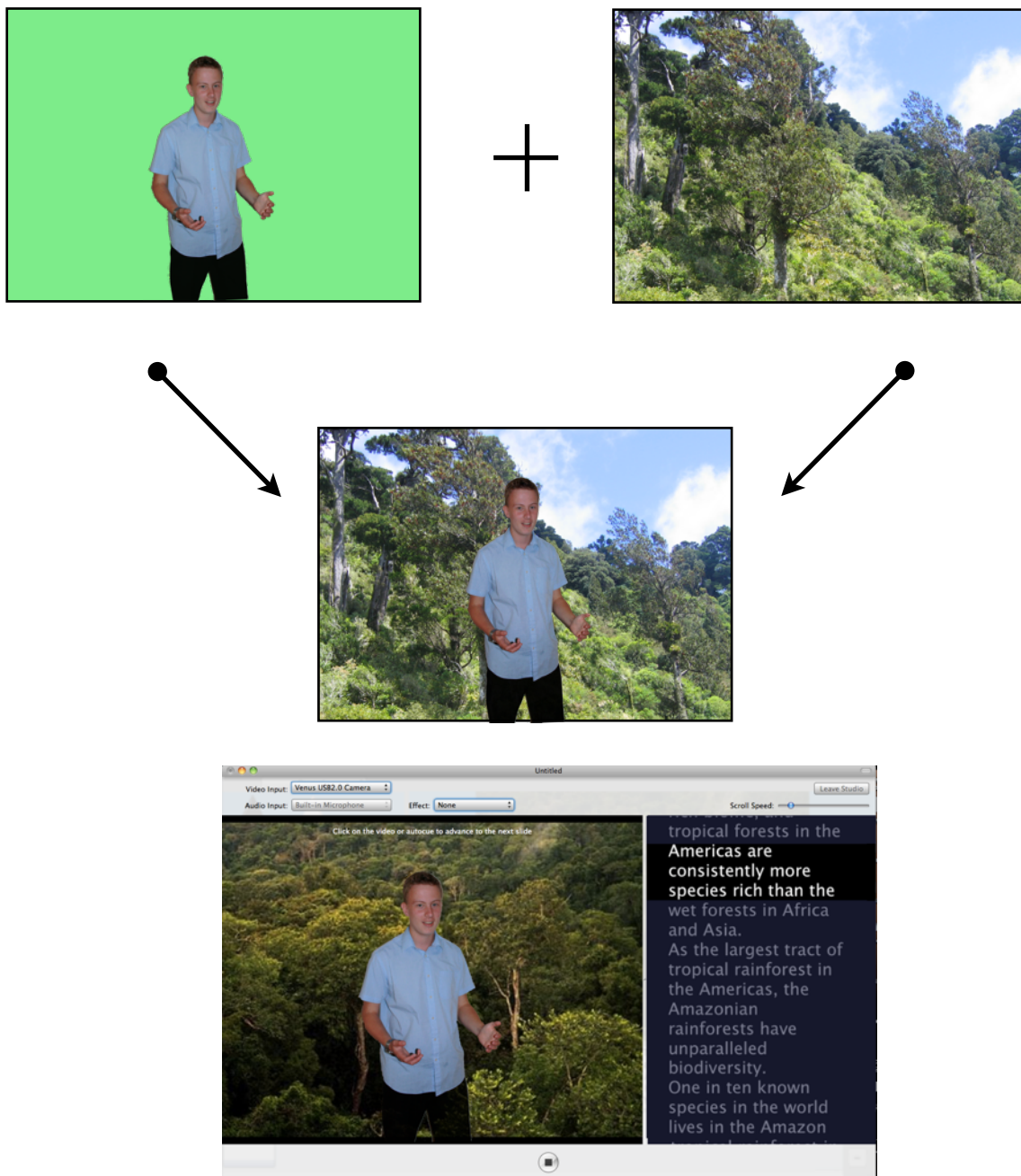
The **Smoothness** slider enables you to smooth off the edges around the foreground subject which helps it blend more smoothly into the background.

There are no real rules for using these sliders, the settings very much depend on how you have set up your subjects for recording.

Chroma Keying Explained

Chroma keying is a technique for mixing two images together, in which usually a single colour from one image is removed, or made transparent, revealing another image behind it. The technique is also known by other names, green-screen, blue-screen, colour keying and colour-separation overlay. Used extensively in the film industry for special effects, it is also seen everyday, such as in weather forecast broadcasting. The presenter appears to be standing in front of a large map, but in reality they are stood in front of a large blue or green background in the studio. Different weather maps are added on those parts in the image where the colour is blue or green. Blue and green are considered the colours least like skin tone.

The illustration below demonstrates the effect that can be achieved.



Blue Screen or Green Screen?

Blue screens were used as the keying colour as it is complimentary to human skin tone. In the film industry it is also tied to the fact that the blue emulsion layer of film has the finest crystals and thus good detail and minimal grain, in comparison to the red and green layers of the emulsion.

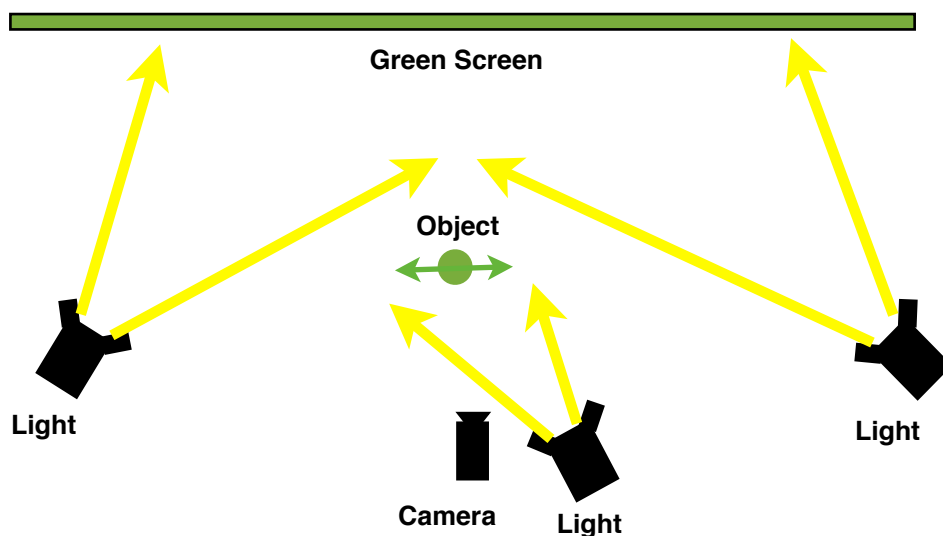
In the more recent digital world however green has become the favoured colour. This is because digital cameras retain more detail in the green channel and it requires less light than blue. Green also has a higher luminance value than blue and in early digital formats the green channel was sampled twice as often as the blue, making it easier to work with.

The choice of colour is up to the effects artists and the needs of the specific shot, obviously dependent on what the characters are wearing or how they are coloured. In more recent times, the use of green has become dominant in film special effects. The green background is preferred over blue for outdoors filming where the blue sky might well appear in the frame and could accidentally be replaced in the process. Although green and blue are the most common, I Can Present has been designed to allow the user to choose any colour to key against.

For the purposes of this manual we will refer to it as green-screen.

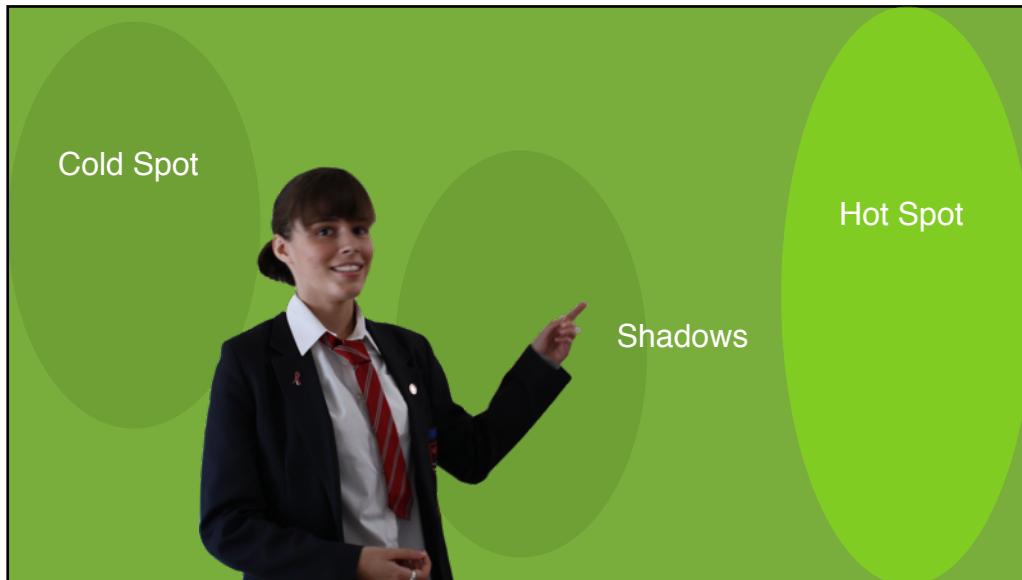
Lighting

The biggest challenge when setting up a green-screen is getting the screen evenly lit and to avoid both shadows and *hotspots*, (areas which are brighter than the rest of the screen). An evenly lit screen gives a narrow colour range to be replaced, resulting in much more accurate keying. If you have shadows, it would present itself as a darker colour to the camera and might not register as part of the matte.



Example Lighting Diagram

When choosing a chroma key screen, try to use materials which are not shiny. A shiny surface will have areas that reflect the lights making them appear too bright. It is better to choose a matt surface as this will diffuse the reflected light better and have a more even colour range.



Appendix

Links to Support Resources and Updates

[I Can Present – Support Resources and Updates](#)

Deploying I Can Present Over a Network

System administrators who wish to deploy the I Can Present MSI over a network need to take the following into consideration.

If you wish to deploy the application pre-registered then you may require an MST (Microsoft Transform) file. This can be created using our online MST tool.

Each client machine will need to have the following pre-installed.

- A minimum of [Windows Installer 3.1](#)
- .NET Framework 4.0 Client Profile

These are available as downloads from Microsoft's website.

[Click here for more information on deploying the .NET framework.](#)

ACKNOWLEDGEMENTS

Microsoft Windows, Microsoft PowerPoint, and Adobe PDF are trademarks, all trademarks are acknowledged.

VividPro™
Digital Camera

48^{MP} / **2.7"** TFT-LCD

Digital Camera

Instruction Manual

Model #: CAM17SV



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INTRODUCTION

As the new owner of the VividPro™ 48 Megapixel Digital Camera with Auto-Focus Digital Zoom Lens, you have everything you need to take high quality digital photos and videos. Your digital camera can also be used as a removable disk when a SD card up to 64GB is inserted into the camera. Please read this manual carefully in order to get the most out of your VividPro™.

FEATURES AND SPECIFICATIONS

This 48MP Camera includes a choice of photo resolutions:

(48MP) 8000x6000, (30MP) 6400x4800, (24MP) 5600x4200, (18MP) 4896x3672, (16MP) 4608x3456, (8MP) 3264x2448, (7MP) 3072x2304, (5MP) 2592x1944, (2MP) 1600x1200.

- Digital Video Resolutions: 4K, 2.7K, 1080P, 720P
- 2.7 inch TFT-LCD
- 8x Digital Zoom Function
- Scene Selections
- Image Size Selections
- Anti-Shake
- Self-Timer



PACKAGE INCLUDES

- Digital Camera
- SD Card
- Instruction Manual
- QRG (Quick Reference Guide)
- Wrist Strap
- Li-ion Rechargeable Battery
- USB Wall Charger Port with USB Cable
- Protective Pouch

COMPUTER SYSTEM REQUIREMENTS

Windows XP:

- Pentium III Processor or above with Windows XP
- 128MB RAM with 150MB of free disk space
- Available USB Interface
- CD-ROM Drive (Optional)
- 1024x768 Recommended screen resolution
- 16-bit Color or higher display adapter

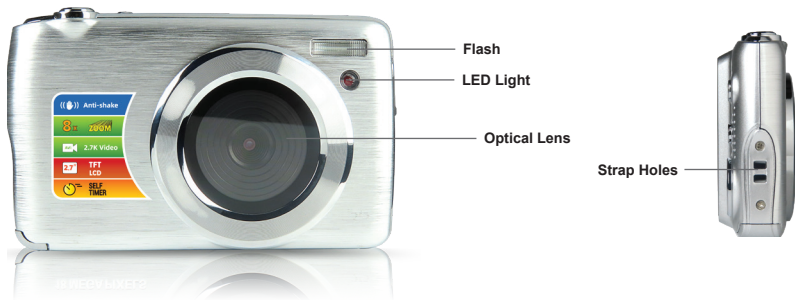
Windows Vista/7:

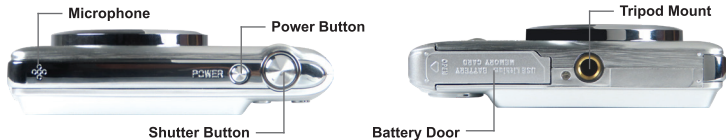
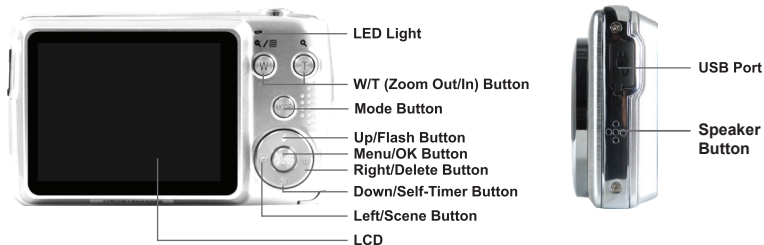
- 800MHz Processor and 512MB of system memory
- 20GB Hard Drive with at least 15GB of available space
- Support for Super VGA Graphics (SVGA)
- Available USB Interface
- CD-ROM Drive (Optional)

Mac:

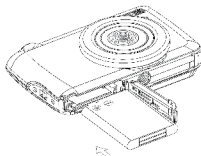
- Power Mac computer G3 500MHz or higher
- Mac OS X version 10.5.x or later
- 128MB or more available RAM (256MB recommended), 150MB free disk space
- 800x600 or higher-resolution monitor displaying millions of colors

A QUICK LOOK AT YOUR CAMERA





INSTALLING RECHARGEABLE BATTERY



Insert with notch as shown



The battery lock

1. Slide the battery door open.
2. Before inserting a battery, the battery lock must be in a pushed-in position: Put a little pressure against the spring tab on the inside left corner of the compartment. This will allow the the battery to slide in. Once the battery is fully inserted, the spring tab will come back up and lock the battery in its compartment (see photo above).
3. Insert the battery correctly with the correct polarity facing up, according to the diagram on the battery.
4. Close and slide the battery door.
5. When camera power is turned on, the battery icon will appear at the bottom right of the screen.



Full battery power



Medium battery power



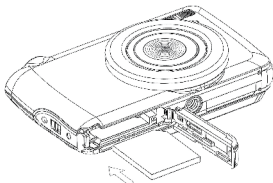
Low battery power

- A “Low Battery” message will flash on the screen when the battery power is insufficient. Shortly thereafter your camera will power off.
- Please remove the battery when you don’t intend to use your camera for a long period of time. This can prolong the life of your battery and camera.

INSTALLING SD MEMORY CARD

An external memory card is required for normal use. Your camera supports any compatible SD memory card (up to 64GB).

1. Locate the Memory Card slot at the base of the camera next to the battery compartment.
2. Insert the Memory Card into the slot in the correct direction (see picture below). Do not force it; the card will only go in the correct direction.
3. Push the card in until you feel it “click” into position. The top of the card should be flush with the surface of the camera. An “SD” icon will appear on the LCD screen after you turn on your camera.
4. Once the external memory card is inserted into the camera, all the images taken with the camera will be stored on the card.
5. Please make sure the card is not locked. No images can be saved if the card is locked.



Insert with notch as shown

Please Note:

1. Formatting will delete all data on the SD memory card including protected data.
2. Don't remove the SD card during formatting as this may damage the card.
3. When your card is full, download the photos/videos from the SD card to your computer. Then, you can delete the photos/videos on the SD card to free up space.

TAKING PHOTOS

1. Compose your photo using the LCD screen.
2. Press and hold the shutter button halfway down to activate the Auto-Focus. Wait for the camera to focus in on the desired object/person. A green frame appears when the object/person is in focus.
3. Holding the camera steady, press the shutter button all the way down to take the photo. You will hear a shutter sound from the camera. The picture will automatically be saved.
4. There will be a short pause while the camera saves a JPEG photo to the memory card. After a photo is taken, (when the camera returns to shooting mode), the number of photos left to shoot at the selected resolution is displayed on the top right of the LCD screen.
 - When the SD card memory (photo capacity) is full, the LCD screen will display a message: "Memory Full - Insert an SD Card". Photos cannot be saved without an SD card.
 - Download the photos to your computer using copy and paste from the SD card to your local drive. Once you have downloaded photos and videos to your computer, you can delete the files from your SD card to create more capacity, or insert another SD card (Class 6 or higher) to continue taking more photos and videos.

HOLDING THE CAMERA CORRECTLY


Hold the camera steady and correctly as shown in the diagram below.

Note: Do not touch or cover the lens while in use.






STARTING YOUR DIGITAL CAMERA




Power On: Press the power button on the top of the camera to turn the camera on. The LCD will light up and there will be a “beep” sound.

Power Off: Press the power button again to turn off your camera. When there is insufficient battery power, a red icon  will appear on the LCD screen. Your camera will automatically power off after a few seconds.

Mode Selection: This digital camera has 3 main modes: Camera Mode, Video Mode and Playback Mode.

-  Camera Mode is to take still photos and adjust camera settings.
-  Video Mode is to take videos and adjust video settings.
-  Playback Mode is to preview photos/videos and adjust photo/video files.

In order to select a mode:

1. When the camera is powered on, it will be in the Camera Mode (default).
2. Press the Mode button repeatedly to select one of the 3 modes.
3. The Camera Mode will have a  icon on the top left corner of the LCD screen, the Video Mode will have a  icon and the Playback Mode will have a  icon.

DIGITAL ZOOM




You can magnify your subject/object even more by using the 8x digital zoom. Press and hold the T button to zoom in and press W button to zoom out.

SHORTCUT BUTTONS

The camera has the 4 shortcut buttons on the Menu dial for quick access to the following settings: Scene (Left button), Self-Timer (Down button), Delete (Right button), and Flash (Up button). Press the relevant button to activate shortcuts.

Shortcut to Flash (Up Button):

In low light conditions, it is best to use the built-in flash. You can also use the flash to compensate for backlight conditions. Remember, that if the battery is low the Flash option may not be available.

1. Press the Flash/Up button.
2. The Auto Flash () icon will appear on the screen. This will activate the flash, as needed.
3. After each use, an LED will begin blinking indicating that the flash is charging.
4. Press the Flash/Up button again for the Manual Flash () icon to appear. This means the flash will always be on. If the flash is not ready, an LED and an icon will blink. Wait until the flash is charged before taking a photo.
5. Press the Flash/Up button until the  icon appears again. This means the flash is turned off. This is the default flash setting.

Shortcut to Turn Display Icons On/Off (Mode Button):

1. Press and hold the Mode button to turn the icons on or off on the display. When the icons are turned off, the Menu button will not work; however, you can still take pictures and record videos.
2. Press and hold the Mode button again to display the icons.

Note: When you turn the power on, the icons will appear (default).

A “Low Battery” warning with 1 bar will appear if there is insufficient battery power to operate the flash.

Shortcut to Scenes (Left Button):

There are 9 different scene options that appear on the screen. Choose any of these modes to activate settings for different lighting/environmental conditions.

1. Press the Scene/Left button.
2. Press Up/Down to select from the 9 different scene options: Auto, Sport, Night, Portrait, Landscape, Backlight, Party, Beach, High Sensitivity.
3. Press the Menu Button to select the desired Scene.


Shortcut to Self-Timer (Down Button):

There are four different self-timer options to choose from. The self-timer allows you to position everyone before the photo is taken.

1. Press the Self-Timer/Down button.
2. Keep pressing to select from the 4 desired self-timer options: Off, 2 seconds, 5 seconds, 10 seconds.

Shortcut to Delete (Right Button):

The Delete button can be used to delete single photos or videos.

1. Press Delete/Right button ().
2. A Delete confirmation message will appear on the screen with Yes or No options.
3. Press Up/Down button to choose Yes to delete or No to cancel.
4. Press the Menu button to confirm. If you select Yes, the selected image will be deleted.

CAMERA MODE

The available Camera Mode menus are: Mode Set, Photo Resolution, Beauty Face, Anti-Shake, Face Detect, Smile Capture, Multi-Snapshot, Self-Timer, Date Stamp, Setup.

Mode Set (Scene Selection):

This camera supports that allows you to choose an ideal environment for your photo.

1. Press the Menu button.
2. Press Right/Left button to select the Mode Set.
3. Press Up/Down to select from the 9 different scene options: Auto, Sport, Night, Portrait, Landscape, Backlight, Party, Beach, High Sensitivity.
4. Press the Menu Button to select the desired Scene.

Photo Resolution:

Image size settings determine the quality and number of photos that can be saved and the amount of memory required for each photo. The higher the photo quality, the more memory is used. The image size and quality will also affect the maximum size of your prints.

1. Press the Menu button.
2. Press Right/Left button to select the photo resolution menu.
3. Press Up/Down to select photo resolution:
(48MP) 8000x6000, (30MP) 6400x4800, (24MP) 5600x4200, (18MP) 4896x3672, (16MP) 4608x3456, (8MP) 3264x2448, (7MP) 3072x2304, (5MP) 2592x1944, (2MP) 1600x1200.
4. Press the Menu button to confirm, save and exit the Menu mode.
5. The selected size icon will appear at the top of the LCD screen.



Beauty Face:

This camera supports "Beauty Face" that allows you to take the best portrait shots.

1. Press the Menu button.
2. Press Right/Left button to select the Beauty Face icon.
3. Press Up/Down button to select On/Off.
4. If you select "On", press the Menu button to confirm and the icon will appear on the screen. If you select "Off" and press the Menu button to confirm, the camera will save and exit the Menu mode.



Anti-Shake:

This option helps prevent blurry photos resulted from shaking during shooting.
You don't need a tripod for stabilization.

1. Press the Menu button.
2. Press Right/Left button to select the Anti-Shake icon.
3. Press Up/Down button to select: On/Off.
4. Press the Menu button to confirm. This icon will appear on the LCD screen when on.



Face Detect:

This camera supports face detect to help you take great portraits.

1. Press the Menu button.
2. Press Right/Left button to select the **Face Detect** icon.
3. Press Up/Down button to select: On/Off.
4. Press the Menu button to confirm. This icon will appear on the screen when Face Detect is on.



Smile Capture:

1. Press the Menu button.
2. Press Right/Left button to select the **Smile Capture** icon.
3. Press Up/Down button to select On/Off.
4. Press the Menu button to confirm.

Note: Once you use “Self Timer”, the “Smile Capture” function will turn off automatically.



Multi-Snapshot:

Take up to 3 photos continuously, even if pressing the Shutter button only once.

1. Press the Menu button.
2. Press Right/Left button to select the **Multi-Snapshot** icon.
3. Press Up/Down button to select: On/Off.
4. Press the Menu button to confirm.



Self-Timer:

This camera has a self-timer feature to delay the time the camera takes to shoot the photo:

1. Press the Menu button.
 2. Press Right/Left button to select the **Self-Timer** Menu.
 3. Press Up/Down button to select: Off, 2 seconds, 5 seconds, 10 seconds.
 4. Press the Menu button to confirm and return to Camera Mode.
 5. The Self-Timer icon will appear at the top of the screen; the LED will flash the delay time you chose.
- To activate timer, lightly press the Shutter Button to focus, then press the Shutter Button further to begin timer.

Date Stamp:

This option will display or not display the date and time on a photo.

1. Press the Menu button.
2. Press Right/Left button to select the **Date Stamp** menu.
3. Press Up/Down button to select: Off, Date only, Date & Time. Press the Menu button to confirm.
4. If you select "Date" the date will print on the photos. If you select "Date & Time" the date and time will print on the photos. If you select "Off", neither the date nor time will print on the photos.

SETUP MENU

There are 13 settings in the setup menu. These include: Exposure, ISO, White Balance, Sharpness, Quality, Set Date, Power Save, Language, Light Frequency, Sound, Format, Default Setting, Cancel.

Exposure:

This setting allows you to adjust the brightness of images.

1. Press Up/Down button to select "**Exposure**" in the Setup Menu.
2. Press Menu to enter the submenu.
3. Press Up/Down button to select an exposure value (between +3 to -3).
4. Press the Menu button to confirm and return to Photo Mode. The exposure icon will display on the screen.

ISO:

This is a special function that allows you to enhance the light conditions if no flash or tripod are being used. But remember, flash and tripod are better choices than ISO. When you want to adjust the ISO sensitivity, set a low value ISO to prevent hot or light spots (facula) on the photos.

1. Press Up/Down button to select **ISO** in Setup menu.
2. Press Menu button to enter the ISO submenu.
3. Press Up/Down button to select: Auto, 100, 200, 400.
4. Press Menu button to confirm and return to Photo Mode. An ISO icon will display the setting at the bottom of the screen.

White Balance:

This setting allows the camera to adjust the color of your photos according to the color of the light source.

1. Press Up/Down button to select **White Balance** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select: Auto, Daylight, Cloudy, Tungsten, Fluorescent.
4. Press Menu button to confirm and return to Photo Mode.

Sharpness:

This setting allows you to adjust the sharpness of your images.

1. Press Up/Down button to select **Sharpness** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select: Soft, Normal, Vivid.
4. Press Menu button to return to Photo Mode.

Quality:

The quality of your photos affects the number of photos you can take. Super Fine quality allows you to take fewer photos, but the photos will be at better quality.

1. Press Up/Down button to select **Quality** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select: Super Fine, Fine, Normal.
4. Press Menu button to confirm and return to Photo Mode. The corresponding Quality icon will appear on the LCD screen bottom.

Set Date:

This allows you to set up the date and time format displayed on the photos.

1. Press Up/Down button to select **Date & Time** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Right/Left button to highlight and select the format Year, Month, Day, Hour, Minute, Second, Date Format (selecting the date format you desire).
4. Press Up/Down button to change the value of highlighted selections.
5. Press Menu button to confirm and return to Photo Mode.

Power Save:

The camera will be automatically powered off if idle for 3 minutes (default setting).

To change the time to power off:

1. Press Up/Down button to select **Power Save** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select: Off, 1 Minute, 3 Minutes, 5 Minutes, 10 Minutes.
4. Press Menu button to confirm and return to Photo Mode.

Note: If "Off" is selected, the camera will not power off until the battery power is used up or turned off manually.

Language:

There are multiple languages to choose from (the default is English).

1. Press Up/Down button to select **Language** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select the language desired: English, Deutsch (German), French, Spanish, Italian, Русский (Russian), Thai, Portuguese (Brazil), Netherlands (Dutch), Simplified Chinese, Traditional Chinese, Japanese.
4. Press Menu button to confirm and return to Photo Mode.

Light Frequency:

For U.S. customers, use 60Hz.

1. Press Up/Down button to select **Light Frequency** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select 60Hz/50Hz.
4. Press Menu button to confirm and return to Photo Mode.

Sound:

You can turn off the sound indicators (default is on).

1. Press Up/Down button to select **Sound** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select Off/On.
4. Press Menu button to confirm and return to Photo Mode.

Format:

Please operate with caution. Once formatted, all the files on the memory card will be irreversibly deleted, including protected files. Please transfer images and videos or any other important files to your computer before formatting.

1. Press Up/Down button to select **Format** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select Yes or No.
4. Press Menu button to confirm.

Default Settings:

If camera settings are in disarray, you can reset to the camera's default settings:

1. Press Up/Down button to select **Default Setting** in Setup menu.
2. Press Menu button to enter the submenu.
3. Press Up/Down button to select: Yes (resets to default) or No.
4. Press No to exit.
5. Press Menu button to confirm.

Cancel:

To quit the menu, select it in the Setup menu and press the Menu button to exit.

VIDEO MODE

Press the Mode button to select **Video Mode**. You must insert an SD memory card to shoot videos.

When the  icon appears on the top left corner of the LCD screen, this indicates that you are in Video Mode.

1. Prepare the object or subject you wish to record.
2. Press the shutter button to begin shooting the video.
3. The elapsed time will appear on the top right of the LCD screen. The indicator light will keep flashing.
4. Press the shutter button again to stop the recording and save this file in AVI format.

Playback and Saving Videos:

- Preview AVI files in Playback mode or once downloaded to your computer by using QuickTime or Windows Media Player.
- This camera records a video and audio.

Video Mode Menu

In the Video Mode Menu there are 3 options: Video Resolution, Date Stamp, Setup.
Power on the camera and press the Mode button once to enter Video Mode.

Video Resolution:

Your camera supports 4 video resolutions:

1. Press Menu button.
2. Press Left/Right button to select **Video Resolution**.
3. Press Up/Down button to select a size option: 4K (3840x2160) @10fps, 2.7K (2688x1520) @20fps, FHD (1920x1080) @30fps, HD (1280x720) @30fps
4. Press the Menu button to confirm, save and exit the menu. The size icon will appear at the top of the screen.


Date Stamp:

This is to set whether date and time on the video are displayed: Off, Date, Day, Time.

Setup:

The operation instructions about Setup are same as in camera mode.

PLAYBACK MODE

Press the Mode button to enter the Playback mode. When the icon ► (photo) or ►  (video) appears in the upper left corner of the LCD screen, the camera is in Playback Mode. Now, you can playback photos and videos in your camera. In Playback mode, you can rotate, protect, delete or crop your photos, and protect or delete videos.

Note: The message “ No Image” will be displayed on the LCD screen if there are no photos in the camera.
Press the Mode button to return to Photo or Video Mode.

Thumbnail Display:

1. When the camera is in playback mode, press W and your thumbnail library will appear on the screen.
2. Press Up/Down/Left/Right button and select a photo or video thumbnail.
3. Press the Menu button to display the photo or video in full screen.

Zoom In or Out of a Photo:

1. Select a JPEG photo.
2. The icon ► will display in the top left corner of the screen.
3. Press the T button multiple times to zoom into the photo.
4. Press Up/Down/Left/Right button to navigate around the photo.
5. Press the W button to zoom back out.

EDITING


You can rotate, protect, delete or crop a single still photo or you can protect and delete a single video.

Rotating Images (Photos Only):

1. Press the Menu button in Playback Mode.
2. Press Left/Right button to select the rotate icon.
3. Press Up/Down button to select a Rotate option: 90°, 180°, 270°, Cancel.
4. Press the Menu button to confirm.


You cannot rotate a protected file. If attempting to rotate a protected file, "File Protect" will display on the screen.

Protecting Photos and Videos:

1. Press the Menu button in Playback Mode.
2. Press Left/Right button and select the  icon.
3. Press Up/Down button to select: Write-protect current file, Write-protect all files, Unlock current file, Unlock all files, Cancel.
4. Press the Menu button to confirm. The lock icon will appear on the screen if you selected "Lock".


Deleting Photos and Videos:

Delete unwanted photos and videos at any time to release more memory. You can delete one image or video clip at a time, or delete all the unprotected photos and videos that are currently stored on the memory card.

1. Press Menu button in Playback mode.
2. Press Right/Left button to select **Delete**  icon.
3. Press Up/Down button to select: Delete current file, Delete all files, Cancel.
4. Press Menu button to confirm. The screen will show " Please Wait".

Crop Images (Photos Only):

Crop your photos and save the cropped part as a new photo.

1. Press the Menu button in Playback mode.
2. Press Right/Left button to select **Crop**  icon.
3. Press Up/Down button to select: Crop/Cancel.
4. Press Menu button to enter the submenu; a blue rectangle will pop up.
5. Press Up/Down/Left/Right button to select the area you want to crop.
6. Press the W/T button to make the rectangle crop area larger or smaller.
7. Press Menu/OK button to confirm the Crop or Cancel.
8. Press Menu/OK to save the new cropped image and "Saving" will appear on the screen.

Playing AVI Video Files:

1. In Playback mode, press Left/Right button to select an AVI video file or press the W button to enter the thumbnail library, and select a video. From the thumbnail library, press the Menu button for the selected video to appear in full screen.
2. Press Shutter button to Play the current AVI file.
3. During the video playback, you can press the Up/Down buttons to adjust the volume.
4. Press Menu button to pause; press it again to continue playing.
5. Press Shutter button to stop playing.

DOWNLOADING PHOTOS AND VIDEOS TO YOUR COMPUTER

1. Connect your camera to the computer with a USB cable.
2. Turn on the camera. A USB connection icon will appear on the screen.
3. Your computer will automatically recognize the USB connection.
4. Open the removable disc folder "DCIM".
5. Select "100MEDIA" subfolder.
6. Select the files you want to transfer to your local hard drive.
7. Once you have copied the files you want, you can delete them to free up space on the SD card.
8. Properly remove the USB cable to disconnect.

SPECIFICATIONS

Image Sensor	8MP CMOS Sensor
Image Resolution	(48MP) 8000x6000, (30MP) 6400x4800, (24MP) 5600x4200, (18MP) 4896x3672, (16MP) 4608x3456, (8MP) 3264x2448, (7MP) 3072x2304, (5MP) 2592x1944, (2MP) 1600x1200.
Video Resolution	4K, 2.7K, 1080P, 720P
File Formats	JPEG (Still Image), AVI (Video)
Speaker	Yes
External Memory	HCSD Class 6 or Higher Card (up to 64GB)
Screen	2.7 inch TFT-LCD
Zoom	8x Digital Zoom
Exposure	-3.0EV ~ +3.0 EV
White Balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent
ISO	Auto, 100, 200, 400
Scene	Auto, Sport, Night, Portrait, Landscape, Backlight, Party, Beach, High Sensitivity

Flash	Auto Flash (flashes as needed), Manual Flash (flash always on), No Flash
Self-timer	Off, 2 seconds, 5 seconds, 10 seconds
Interface	USB 2.0
System Requirements	Windows XP, Vista/7, Mac
Battery	Lithium-Ion



Product Registration Instructions

Visit: www.HamiltonBuhl.com

1. Click on Customer Care
2. Click on Product Registration Form
3. Please fill out all fields marked with * to register your product



Warranty

Warranty begins the date item ships from our warehouse. All products have a one year warranty from original date of shipment, unless otherwise noted.

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