

# *Casebook 1.1 User Guide*

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# Casebook 1.1 User Guide

## 1 Installation

### 1.1 Recommended Hardware and Software

<b>CPU</b>	Intel Dual Core 32-bit Processor
<b>RAM</b>	2GB
<b>Free Hard Disk Space</b>	50MB (for the application itself)
<b>Monitor</b>	At least one monitor. No specific requirements.
<b>Input Device</b>	Standard keyboard and wheel mouse
<b>Locale</b>	English (UK) or English (US)
<b>User Account Type</b>	Standard User or above. Administrator for installation
<b>Operating Systems</b>	Microsoft XP win32 and x64 Microsoft Vista win32 and x64 Windows 7 win32 and x64
<b>PowerPoint Version</b>	PowerPoint 2003, PowerPoint 2007

### 1.2 Installation Procedure

To install Casebook:

1. Ensure that you are logged on as administrator or have sufficient privileges to install applications.
2. Double click the "MiradaCasebook.msi".
3. From the displayed Welcome screen, select "Next" to display the End User License Agreement.
4. If you agree to the License, select the "I accept the terms in the License Agreement" check box and select "Next" to select the destination folder to install the software. If you do not agree, the software cannot be installed.
5. Select "Change..." to modify the default destination folder. The default destination folder will be:
  - a. x64 Operating Systems – "C:\Program Files (x86)\Mirada Medical\Mirada Casebook\"
  - b. win32 Operating Systems – "C:\Program Files\Mirada Medical\Mirada Casebook\"
6. Once your preferred destination folder is set, select "Next" to the installation confirmation screen.
7. Select "Install" and the installation will begin.
8. Once the installation completion screen is displayed, select "Finish". Mirada Casebook is ready to use.

Note: PowerPoint may take a little longer than usual to start up the first time after Mirada Casebook is installed.

Note: It is not necessary to remove previous versions of Casebook. They will be upgraded automatically on following the above procedure.

### **1.3 Un-installation Procedure**

Mirada Casebook can be un-installed from the Windows Control Panel similar to other standard Windows applications.

## 2 Using Casebook

### 2.1 New in Casebook 1.1

Casebook 1.1 offers the following enhancements from Casebook 1.0:

- Import data and bookmarks from MiradaXD\*.
- Choose from more colormaps.
- Bookmark titles can be edited.
- Bookmark content can be updated.

*\*Requires a plug-in to MiradaXD. See **Casebook** for XD instructions for details on exporting directly from Mirada's XD application.*

### 2.2 Adding Casebook to a Presentation

Once the Casebook software has been installed, open PowerPoint to create a presentation. There will be a Mirada Medical tab (PowerPoint 2007) or toolbar (PowerPoint 2003). The Mirada Medical add in contains four buttons, **Add Casebook**, **Import DICOM Data**, **Import from MiradaXD** and **Edit Casebook**. Select **Add Casebook**, and the **Import Data** screen appears.

At this point you may choose one of three options for inserting a Casebook slide into your presentation:

#### 1) Import data from MiradaXD

This option allows you to retrieve a DICOM dataset(s) and any bookmarks previously exported directly from Mirada's XD software\*. Click on **Import XD ...** and navigate to the folder into which you exported the data from XD. Select the patient (or folder) name and click OK. Click OK to continue. A progress bar is displayed as the data are loaded and compressed in Casebook.

*\*Requires a plug-in to MiradaXD. See **Casebook** for XD instructions for details on exporting directly from Mirada's XD application.*

#### 2) Import DICOM data

Select **Import Single File** or **Import Directory** to browse for the file or directory you wish to add as the base image data (for example, CT) and again for the Overlay Image Data (for example, PET). You may also select, if you wish, only a single series of DICOM data as the base image layer. When files or directories have been selected, click **OK**. The files will be loaded into Casebook and placed on the slide. By default, the data are resampled to align with the patient axis. The data can be loaded in its original orientation by unchecking the **Axis-align data to patient** box at import. This may reduce the memory required by Casebook for non-axis aligned data.

There may be a short delay in loading the data depending on its size and the specifications of the computer. For best performance, it is recommended that data is imported from the local disk rather than from network locations.

### 3) Insert the without data

Use this option if you wish to insert a Casebook on a slide without adding patient data immediately. You may then manually choose to **Import DICOM data** or **Import from MiradaXD** by using the buttons on the Mirada Medical tab. If you attempt to import data before there is a Casebook added to the slide, you will be prompted to add a Casebook first.

## 2.3 Data Types Supported

Casebook is designed to support non-dynamic, non-gated 3D DICOM images of MR, CT, PET and SPECT. Each data series must be in a separate folder without any other series. Note that Casebook does not perform any registration between the datasets loaded into the base and overlay layers; it only center-aligns the data. Consequently, to achieve correct fusion between the base and overlay, the datasets must share the same field of view.












Due to memory requirements of loading large volume datasets, Mirada recommends that only one Casebook should be inserted per presentation. More may be possible depending on the hardware and memory specification of the machines creating and showing the Casebook presentations.

Note that Mirada Casebook has been extensively tested on a wide range of DICOM data. However, due to the variability of DICOM datasets, it cannot be guaranteed that Casebook will load or display all such data. If you do encounter problems with a particular dataset, please report the issue via [casebook@mirada-medical.com](mailto:casebook@mirada-medical.com).

## 2.4 Editing Casebook


Select **Edit Casebook** to view the imported images. Several features are available to adjust the display. The view layout may be changed via the layout button in the upper right corner of the screen. This is defaulted to **All Views**, and you may use the dropdown menu to select an alternative layout. Double-clicking left on any image view will maximize that view (i.e. axial) to full screen. You may triangulate by moving the cross-hair position.

The left mouse button is, by default, set to adjust the window and level. By selecting the appropriate tools from the toolbar, its behaviour can be modified:

	Toggle cross-hairs		Adjust transparency		Pan
	Toggle text overlays		Navigate slices		Reset pan and zoom
	Select color maps		Place the cross-hair		Reset all visualization
	Adjust window/level		Adjust the zoom		

The middle mouse button can be used to adjust the pan, the scroll wheel adjusts the currently viewed slice and the right mouse button adjusts the zoom.

The window and level control operates only on the selected layer. The selected layer is highlighted in the layer list on the left hand panel. It can be changed by clicking on the desired layer. The checkboxes in this list indicate whether that layer is visible. The transparency control affects only the overlay layer. Zoom, pan and slice navigation control both layers simultaneously.

The Mirada Casebook “about box” may be hidden by clicking the **Hide about box** or by toggling the  icon.

When the Casebook slide is displayed during a slide show, image manipulation tools are available to the presenter. Adjustments made during an editing session will be shown when the slideshow is run, but are not saved when the file is saved.

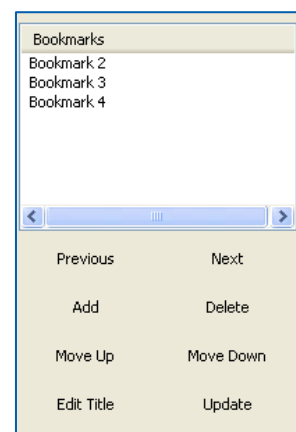
## 2.5 Using Bookmarks

The view state (cross-hair position, slice, view layout, window & level, transparency, etc.) can be saved in the form of bookmarks during editing mode. These bookmarks are saved when the PowerPoint presentation is saved, allowing you to quickly jump back to key locations in the data when presenting your slideshow.

If you exported your data directly from XD, any bookmarks you created during a reading session will be included upon import and displayed in the bookmark control panel as shown in the figure below.

All bookmarks are controlled through the bookmark control panel. Bookmarks may be renamed by highlighting the current bookmark name and selecting **Edit Title** or by double-clicking on the bookmark name and typing in a new name.

To add a bookmark, navigate to the point of interest and adjust the visualization as desired, then click **Add**. A dialog will appear to let you enter the bookmark title. Having entered the bookmark title, click **OK** to add the bookmark. New bookmarks can only be created in the Casebook editor.



If you no longer want a bookmark, select that bookmark and click **Delete** to remove it. **Move Up** and **Move Down** can be used to rearrange the order of the bookmarks in the bookmark list.


Bookmarks can be selected either by clicking on the bookmark title within the bookmark list, or by using the **Previous** and **Next** buttons to cycle through the bookmarks in order. Selecting a bookmark will restore the visual state to that displayed at bookmark creation. A bookmark can be updated to reflect the current state of the images by selecting a bookmark and pressing **Update**. The selection of bookmarks is available both during editing

and playing of the slideshow. **Previous, Next, Add, Delete, Move Up, Move Down, Edit Title** and **Update** are only available in the Casebook editor.

## 2.6 Saving a presentation

Click the **Microsoft Office Button** and then click **Save As** (PowerPoint 2007) or **File → Save As** in the toolbar (PowerPoint 2003), name the file, and select **Presentation** as file type. Click **Save**. Casebook data are saved within the PowerPoint file in a lossy compressed format.

## 2.7 Running the Slide Show

Select Slide Show from the tab (PowerPoint 2007) or toolbar (PowerPoint 2003) and view or start the Slide Show. You may also use the  icon to start the Slide Show. There may be a short delay while PowerPoint and Casebook prepare the slide for presentation.

You must click off Casebook so that it loses focus before you can advance to the next slide. Note that Casebook is always visible on top of anything else, such as other elements added to the presentation or any PowerPoint annotations.

Note that ActiveX controls must be enabled in PowerPoint in order for Casebook features to operate properly.