mediscopeHD

Full-High-Definition (FHD) 1920p x 1080p with H264 encoding

Not just recording videos its a software for complete
Work-Flow Management of all
Diagnostic-Therapeutic-Surgical Endoscopies

Video Recording, FHD Image Capturing, Retrieving, Editing,
Patient Reporting & Document Management Solution

Tru Solutions, Hyderabad. www.tru-solutions.com

USER MANUAL

USER MANUAL FOR MEDISCOPE

Mediscope is a functionally rich and easy to use software for Medical Imaging. It helps in the management of patient records along with captured images and multiple video recordings.

And these images/videos can be later edited/labeled/enhanced in order to generate either an informative patient report with relevant images or a detailed CD that plays automatically with CD-Viewer consisting of patient's info, reports and relevant videos.

Mediscope is independent and totally self-contained video capture software that works with various medical instruments. Analog video output from such medical instruments is captured via a video capture card (USB/ PCI/ PCMCIA) installed in the system running Mediscope software can capture the video data using the USB cable connection.

Mediscope is easy to use, functionally rich software solution for medical professionals and requires no additional learning for use. It helps in saving printer ink and cut cost using smart image cropping feature during reporting.

Features

1. Easy to use
   - The software is easy to use even a nomad user can use the software easily.

2. Stores /retrieve patient details
   - Stores / retrieve patient details(visit date, doctors, comments etc)
   - Fast patient search
   - Export patient details to different formats like PDF, and word document.

3. Image capture
   - Capture image as PNG format.
   - Capture image during preview, recording or playback
   - Stores/retrieve images for later use
   - Footswitch support for capture

4. Image editing
   - Add/edit comments for an image
   - Store/retrieve selected images for report printing and export to PDF format
   - Image editing is an internal tool developed exclusively within the software not have to depend on other software or taken as external tool.

5. Video capture
   - Pause/ resume video recording. Audio/visual indications while recording is in progress
   - Record videos in multiple formats like MPEG1, 2 & 4. VCD, DVD etc.

- Create different video setting profiles for different procedures.

6. Audio capture
   - Capture audio from selected audio device
   - Capture audio from selected audio input pin. For eg. Line In, Microphone, Stereo mix, Mono mix etc.
   - Support multiple audio devices and mixer line.
   - Pause or resume when recording

7. Report generation
   - Customized reports- preview and print
   - Enter comments for images and save the selected images for reference.
   - Auto fills comments and report information.

8. Burn selected images/ videos/ report to CD/DVD
   - Give recorded video, images and report on CD/DVD with user friendly CD-viewer for enhanced patient satisfaction.
   - Customizable CD-viewer interface- you can edit the interface to incorporate details such as features and facilities of your organization with images and animations, hyperlink to your web address etc.
   - An informative procedure CD packed in an appropriate CD cover will not satisfy the patient but will also represent your advanced and professional approach towards work.

9. Image cropping
   - Smart image cropping feature
   - User defined crop area
   - Remove unwanted black area of the image by defining crop margins.
   - Print of only cropped area of the image.
   - Saves printer cartridge and cuts cost.
   - Crop during image capture or during printing.

System requirements

- Processor: Intel Pentium 4 processor or higher
- Hard disk: 40 GB
- RAM: 256 MB
- Monitor: 15''
- OS: Microsoft Windows XP with service pack 2
- Optical Drive: DVD Writer
- Port: COM port or USB to Serial port converter for Footswitch
- Capture Card: Analog Video Capture Card

Main screen

You can enter patient name, age, Doctor etc.

List of patients registered for a year.

Images that can captured from the running video itself.

Video recording by just clicking on the record button and the images can be taken by just clicking on the snap button.

Adding new patients

It is very easy to add new patients to the database using following steps:

Please note: If you are using it for the first time then all you need to do is just start typing in the name the procedure to be done etc.

1) Click add new patient button on the bottom right corner.
2) Enter name and then enter age, procedure, and referred doctor.
3) Enter all the other details available
4) Click on save button in order to save.

Editing an existing patient

To edit the existing patient list perform the following steps

1) Click on the desired field that you wish to change
2) Then click on save button the desired changes will be saved.

Patient search

Mediscope software has an excellent search feature which will help in finding an existing patient from database with just clicks. To search a patient a patient using various search criteria, perform the following steps.

1) From the menu bar click on patient from the drop down menu select find record the following window will appear.
2) For eg. here we are searching for all the patients between the date 17/06/12 to 20/06/12.

Exporting patient report to PDF format

To export patient report to PDF format perform the following steps.
1) From the menu bar select patient and then from the drop menu select "export report to PDF format"
2) You will first have to specify a drive in which you want to save the report.
3) Once you specify a drive the report will be saved in the drive in which you want to save the record.

Administration functions

Procedures

They are certain default procedures that have been inbuilt in the software and hence you can add/delete/modify these procedures according to your needs and requirements. In order to modify these procedures click on administration button and then select procedures the following will appear.
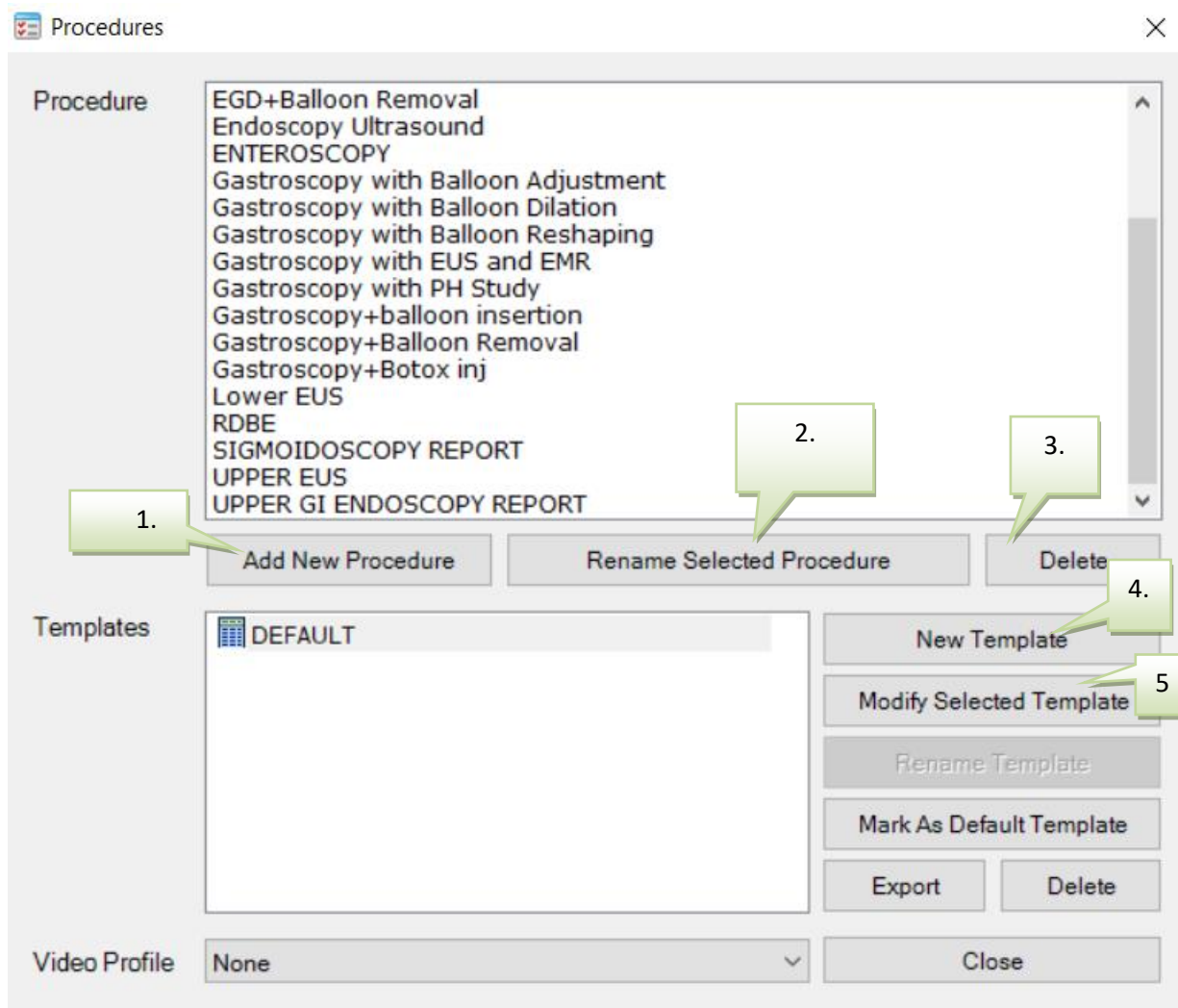
1. **Add new procedure**
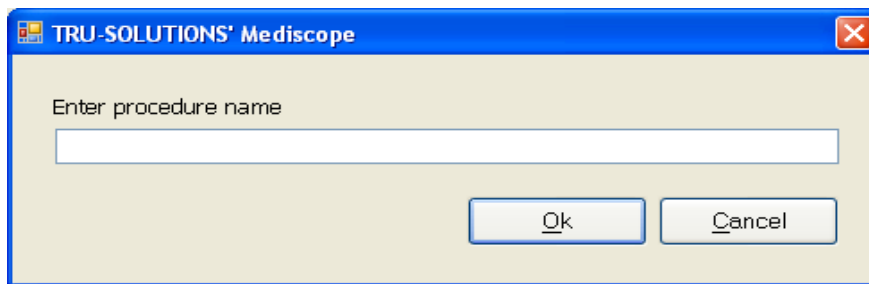
In order to add new procedure all you need to do is click on "add new procedure" the following window will appear. Enter the name of the procedure and click on ok the new procedure will be added.

2. **Rename selected procedure**

    In order to rename the selected procedure all you need to do is click on "rename selected procedure" and the following window will appear.
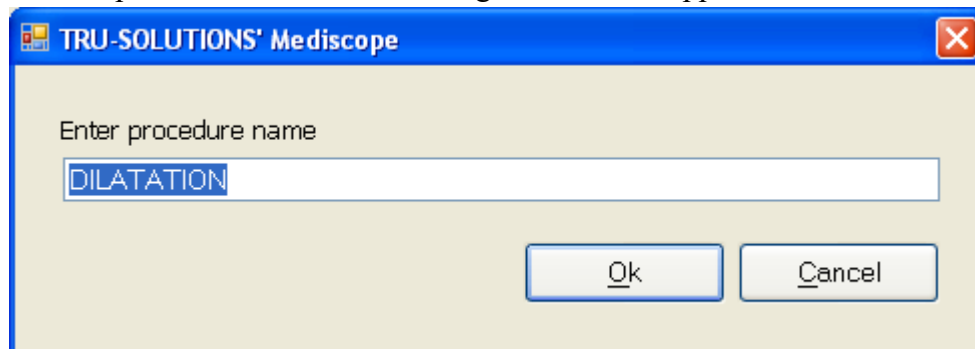

In the text box you can rewrite the name of the procedure and then click on "OK"

3. **Delete**

    In order to delete the procedure all you need to do is just click on the delete button and the procedure will be deleted.

4. **New template**

    In order to create a new template click on "new template" option. Once you click on that option you will have to choose in which format you want to design your template that is in word format or in tru-solutions format. For tru-solutions format the following window will appear.

Use these tools to deign your template
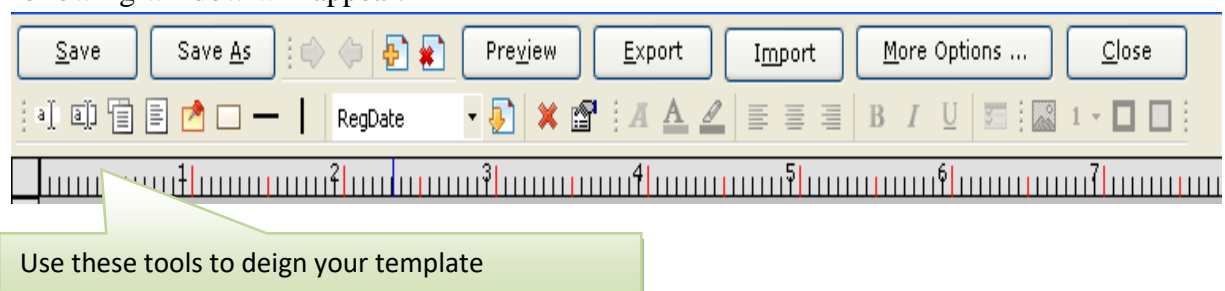
You can use label, single entry box, multi line text box image place holder in order to place images on the report and shape control to export images from other places on the image holder.
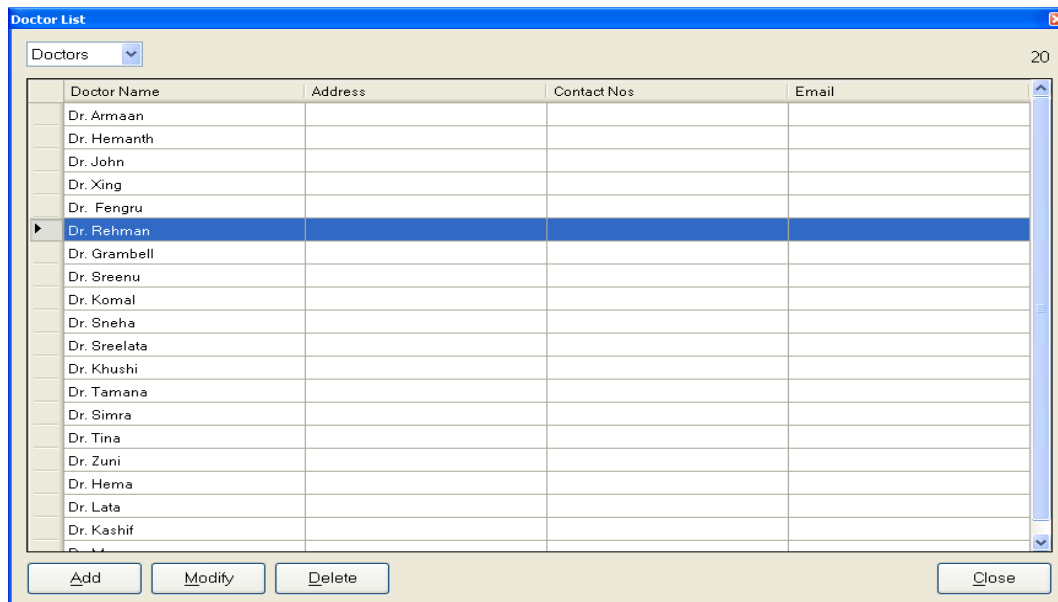
In the similar way you can create a template in word document.

5. Modifying selected template

In order to modify selected template all you need to do is click on "modify selected template" and then modify the template according to your needs and requirements.

Doctors

In order to add/modify delete doctors all you need to do is click on administration and then click on doctors. The following window will appear.

By clicking on 'add' you can add new doctors, modify doctor's name and delete as per need.

Referring Doctors

In order to add/modify delete referring doctors all you need to do is click on administration and then click on referring doctors. The following window will appear.

By clicking on add you can add new, modify and delete referring doctors name as per need.

Quick entry text

Here you can build a list of commonly used and/or difficult words, phrases and sentences, which can be selected while result entry for error free reporting. To view the available list, select 'Quick Entry List' option from 'Administration' menu. The following screen will appear.
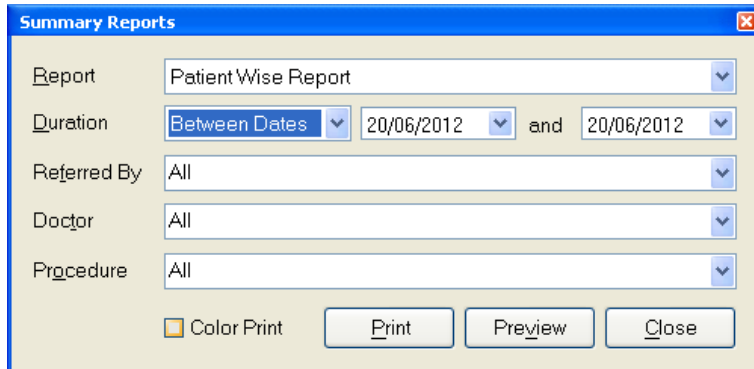

Click 'Add' button to add a new entry, and to modify an existing entry click 'Edit'. To delete an entry select it from the list and click 'Delete' button.

Referral letters

Referral letters can be used to thank a doctor for referring the doctor or the doctor may suggest another test to the patient in some other hospital and hence these referral letters can be used and these templates can be made and saved. In order to design a template click on administration and then click on referral letters and you can design referral letters and save them for using it later.

Summary reports

Mediscope has an attractive feature called summary reports for e.g. if you want to know the no. of patients that have been registered during a month or a year, you need to click on administration button then select the option summary reports. Following window will appear.

Here you can select the type of report for example procedure wise report , you can select the duration that is for how long you want the report say for a day, month or a year. And then you can print the report.

Header footer design

Header is often used to create an identity for your hospital. In order to create a unique identity for your hospital all you need to do is use the header and footer design to customize the look of your report. In order to design header footer all you need to do click on administration then click on header footer design.

Recent list

Recent patient list is often used to access patient for one year on the main screen itself. You don't have to search here and there everything is on the main screen itself. If you want to filter records then click on administration and then select recent patient list from that select filter records you search record according to your needs and requirements.
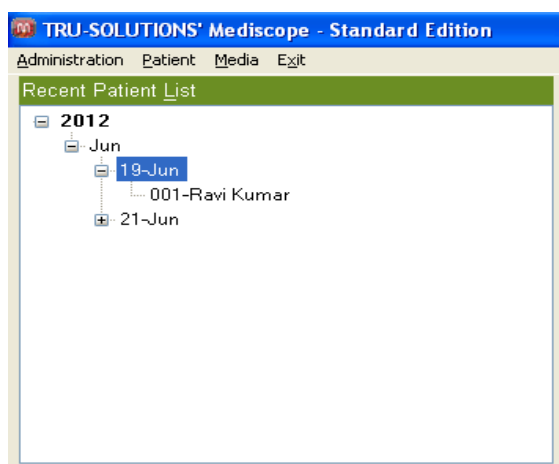
Settings

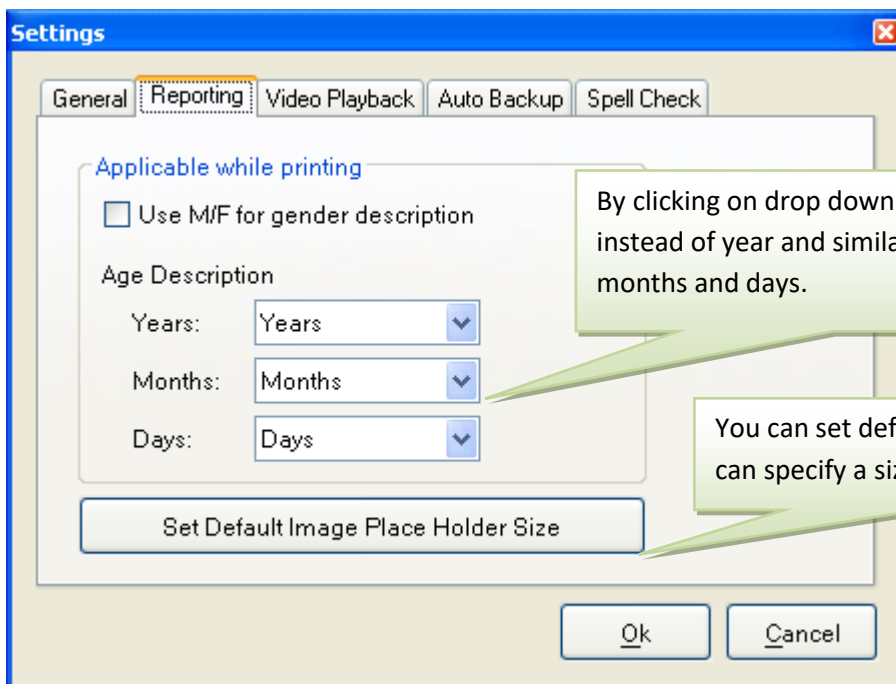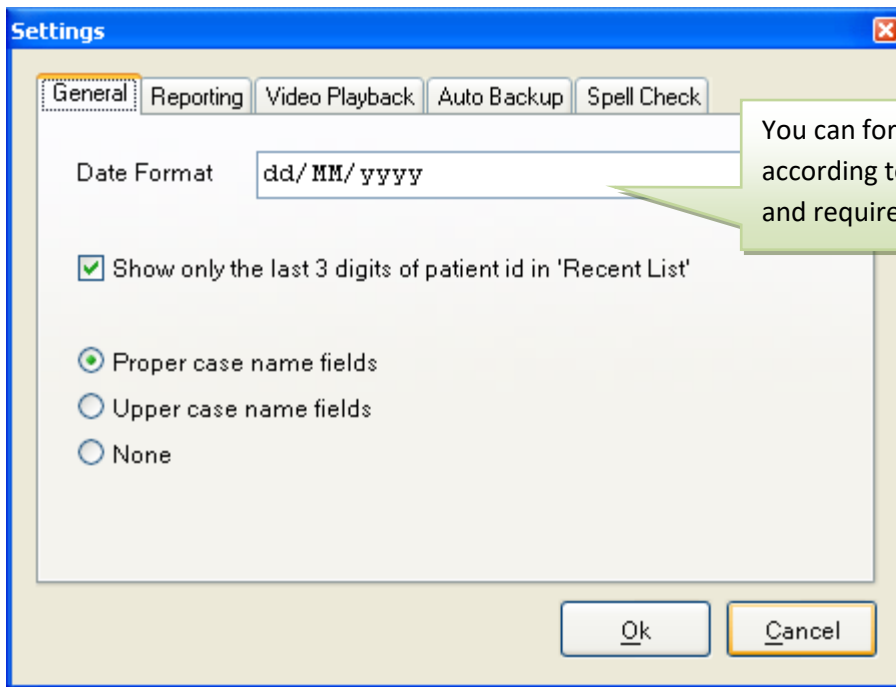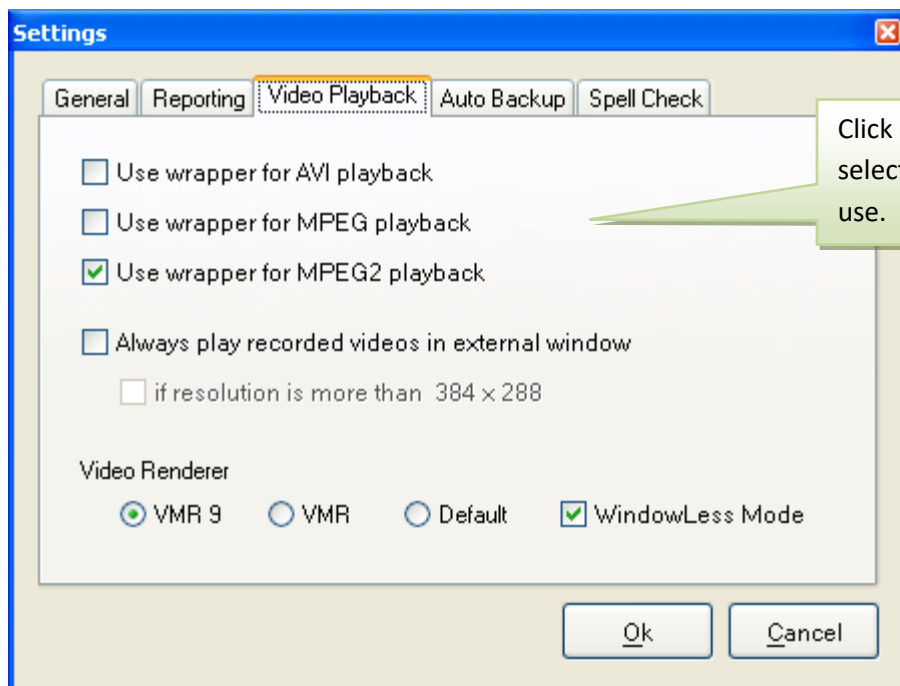Settings are one of the most important part of the software and hence can be configured according to one's needs and requirements. In order to configure settings simply click on administration then select settings the following window will appear.

Settings

General | Reporting | Video Playback | Auto Backup | Spell Check

Date Format   dd/MM/yyyy

☑ Show only the last 3 digits of patient id in 'Recent List'

⦿ Proper case name fields
◯ Upper case name fields
◯ None

Ok   Cancel

> You can format the date according to your needs and requirements

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Settings

General | **Reporting** | Video Playback | Auto Backup | Spell Check

Applicable while printing

☐ Use M/F for gender description

Age Description

Years: Years   ⌄
Months: Months   ⌄
Days: Days   ⌄

Set Default Image Place Holder Size

Ok   Cancel

> By clicking on drop down menu you can select Y instead of year and similar is the case for months and days.

> You can set default image size and you can specify a size for the image.

Settings

General | Reporting | Video Playback | Auto Backup | Spell Check

☐ Use wrapper for AVI playback

☐ Use wrapper for MPEG playback

☑ Use wrapper for MPEG2 playback

☐ Always play recorded videos in external window

    ☐ if resolution is more than 384 x 288

Video Renderer

◉ VMR 9   ○ VMR   ○ Default   ☑ WindowLess Mode

Ok   Cancel

> Click on the wrapper option to select the wrapper you want to use.

Settings

General | Reporting | Video Playback | Auto Backup | Spell Check

☐ Backup database every day

Select backup folder;

C:\Mediscan\data\Backup\   ...   X

☐ Zip backup file

☐ Delete backups older than 15 days

Note: This backup option makes a copy of the master database containing procedures with templates, doctors/referrers list, patient records, etc. It will not backup patient report, images, videos. To make full backup, use database maintainance option from Administration menu,

Ok   Cancel

> You can take backup on day to day basis and you can select a back up folder where you want to store the data.
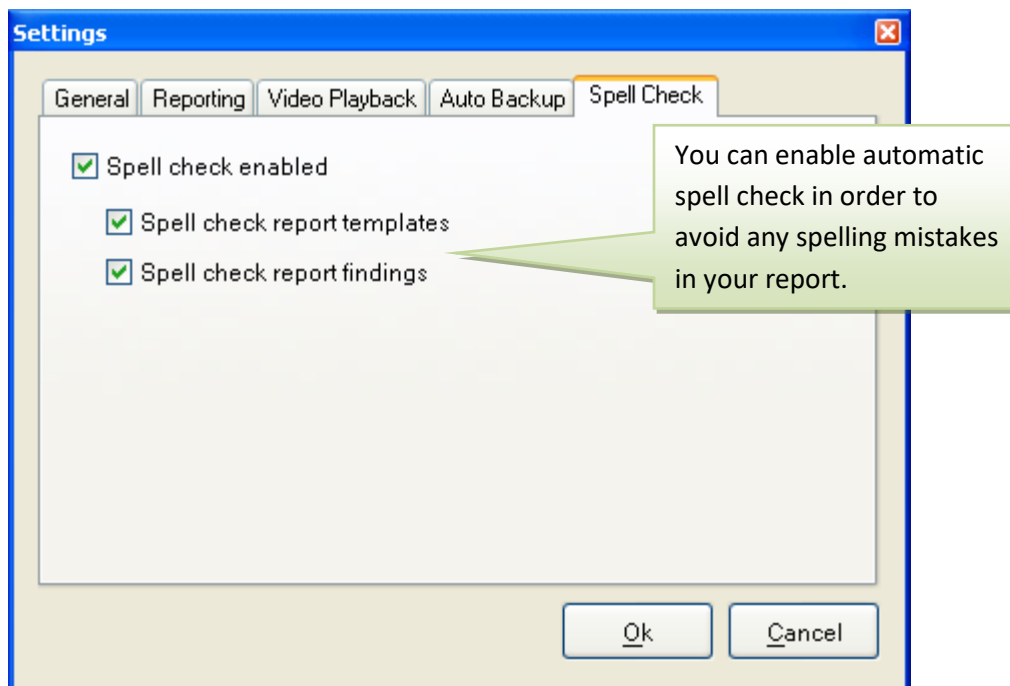
Printer selection

You can set your printer according to your needs and requirements and to select a printer all you need to do is. From the menu bar select administration and then select the option printer selection. After selecting the option the following window will appear.
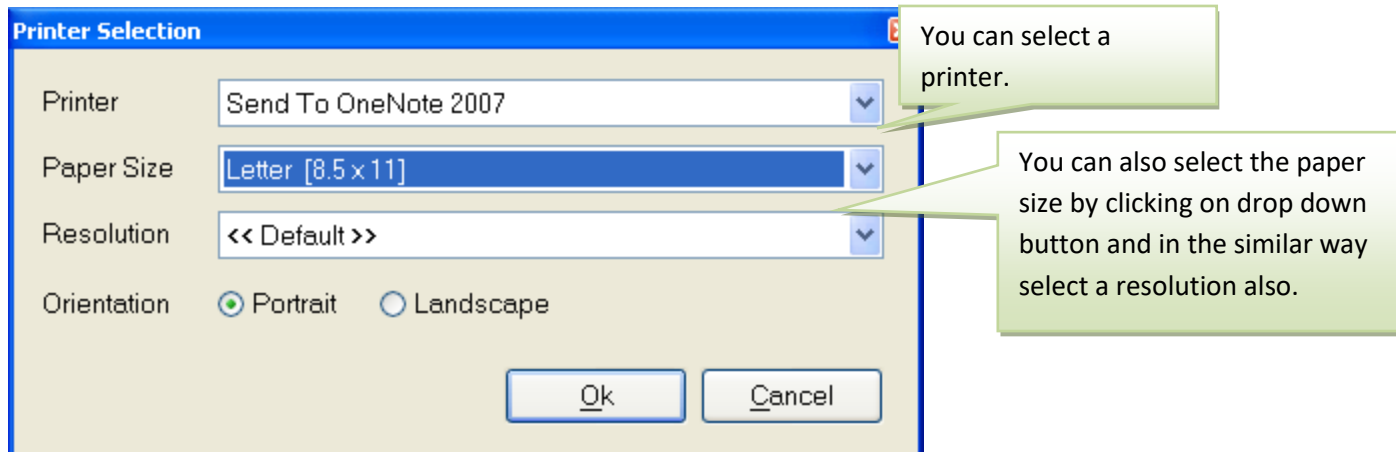
Delete temporary files

In order to delete temporary files all you need to do is click on administration button and then click on delete temporary files and all temporary files that are created gets deleted.

Delete images and videos

In order to delete images and videos click on administration button and then click on delete images and videos the selected data for a selected patient will be deleted.

Database maintenance

Database maintenance is one the important aspect hence it is essential to have a backup of the entire data, in order to retrieve the data as and when required. However, data can also be deleted using the delete option. You can either delete the entire data or you can delete data date wise.

1. You can burn your CD or DVD using the burn option.
2. You can export the data from one drive to the other one using export option.
3. You can delete the data by just clicking on the delete button.