MEDMONT STUDIO



USER MANUAL

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1. Intended Purpose

Medmont Studio is a powerful software package for controlling the Medmont range of medical instruments from your personal computer or laptop. Medmont Studio is a component of the following instruments:

- Medmont Automated Perimeters (all models)Medmont DV2000 Diagnostic Video Imaging
- Medmont Corneal Topographers (all models)

The extensibility of Medmont Studio means that its capabilities expand as you purchase new instruments and software, fully integrating into a single working environment.

In addition to controlling the instruments, Medmont Studio provides additional *Analysis Tools* and *Patient Management* facilities. These include complete patient management functions out-of-thebox using Medmont's own database, or optionally via a 3rd party Practice Management system. Check the Medmont web site for an up-to-date list of supported 3rd party systems.

In a small practice Medmont Studio can be run from just one computer, managing both the patient database and controlling the instrument. This is called the *standalone* configuration.

For larger practices, Medmont Studio contains powerful features for inter-connecting multiple computers to centralise data-storage on one computer called the *server*. All other computers on the network are called *clients*. Medmont instruments may be connected to any client in the network.

This document describes the basic Medmont Studio capabilities, including patient management. Separate on-line and printed documentation is available describing the additional functionality specific to particular instruments.

Software Conventions

When referring to menu selection, the terminology **Home > Patient > New** means click on the **Home** ribbon bar tab, then look for the **Patient** group on the ribbon bar and click on the **New** icon. This format conforms to the **Tab > Group > Action** system for identifying menu items in a ribbon bar menu system.



A small glossary is included for terminology that originated with Medmont. It also includes some common terms where they apply to Medmont equipment. It is not a glossary of perimetry. Terms that appear in the glossary are <u>underlined</u> in the text.

Explanation of Symbols



Warning - In event of user error or equipment fault condition there may be a serious risk to health or life of patients or operator, or product damage or loss may occur.

Accessories

- PC incl. Operating system (provided by customer)
- User Manual
- Isolation Transformer (optional)
- Dummy plug network connection (optional)
- Dummy plug serial 9 pin serial port (optional)
- Label for Patient environment (optional)

2. Hardware Configuration

Important: Install the software before inserting or attaching any new hardware to your computer. This allows the software to pre-install the hardware drivers ready for when the hardware is connected.

PC and Associated Equipment Requirements

Check that your computer meets or exceeds the very basic requirements listed below to run Medmont Studio.

- Pentium[™] processor-based personal computer, P4 2.8 GHz or Higher (P4 1GHz minimum). Motherboard using genuine Intel[™] PCI chipset highly recommended. VIA chipsets have proven to be unreliable.
- Microsoft[™] Windows[™] 7 and Microsoft[™] Windows[™] 8
- 3 GB RAM or more (2 GB minimum)
- Video cards that share main memory are not recommended. For stereo viewing using shutter glasses, a compatible NVidia video card is required.
- 10GB of available hard-disk space setup to use NT File System (NTFS).
- 2 free USB 2.0 ports.



Use only PC and associated equipment that has been certified to the Standard EN/IEC60950 (Information Technology Equipment) and the Standards for Electromagnetic Emissions CISPR22/EN55022.



If used within a patient environment, power the PC and associated equipment with an EN/IEC60601-1 compliant isolation transformer e.g. Medmont TR2450 (230/240V), or an additional fixed protective earth connection.



Cover any open PC communication ports that have accessible conductors with dummy plugs if used in a patient environment.

If you have a previously installed version of Medmont Studio we strongly recommend that you back-up your old database before proceeding.

If you have used the *archiving* facility of the very old versions of Medmont Studio, you should unarchive old exams to allow the installation data conversion program to upgrade your data. The later versions do not support archiving.

3. Installation Configurations

There are a number of configurations for a Medmont Studio installation that depend on the practice patient management environment and whether a networked computer system exists. Medmont Studio can be run in three configurations:

- **Standalone** A small practice configuration consisting of only one computer or alternately a small network system. The latter would have a computer for instrument control and another for administration where the patient data resides, and typically including a 3rd party Practice Management package.
- **Network (Client/Server)** For large practices with a local area computer network (LAN) in place.
- **Single User Review** An analysis-only mode is available that allows editing and analysis, but no capture from instruments.

Standalone

The **standalone** configuration is the most popular and simplest to use. Appropriate licensing for this configuration is included with each Medmont instrument. This is a versatile configuration that can be configured in a number of ways.

Warning! Networking of the instrument computer with other computers may cause unacceptable leakage currents. Only connect through wireless network connections.

A standard configuration consists of

- A computer including monitor.
- One or more Medmont instruments.
- The Medmont Studio software.
- Optional supported 3rd party practice management software same computer
- Printer (wireless unless connected through isolation transformer)

Another common configuration consists of

- Two computers. One configured to control the Medmont instrument(s), and the other configured with one of the supported 3rd party Practice Management packages, the two typically connected as a Windows Workgroup through a wireless network connection.
- One or more Medmont instruments.
- The Medmont Studio software.

Both systems would also include:

 An activation key with licenses for Exactly one session. Instrument license(s). Additional functionality licenses.

Configuration Typical Use

- Conducting exams.
- Subsequent review, editing, and analysis of exams.
- Patient management.

Network (Client / Server)

The Medmont network configuration works with one or more Medmont **client** computers connected to a single Medmont **server** computer. The underlying network can be either a Workgroup or a Domain based system.

This configuration requires the purchase of a license upgrade from Medmont to allow multiple computers to run the software simultaneously.

Warning! Networking of the instrument computer with other computers may cause unacceptable leakage currents. Only connect through wireless network connections.

Where the Medmont Studio **server** software is installed depends on the operating system running on the network's server computer. The options are:

- The Medmont Studio **server** installed on the network server computer itself, as long as the server is running Windows Server 2003 or Windows Small Business Server 2003 or later versions of these products, or
- The Medmont Studio server installed on one of the client computers in the network.

The computer on which the Medmont Studio is configured as a server requires:

- An activation key with licenses for
 - Maximum number of sessions (typically more than one). Instrument license(s). Additional functionality licenses.
- 3rd party Practice Management software with software license as required (optional).

One or more Medmont **client** computers with:

- Medmont Studio software configured as a **client**.
- Medmont instruments as required, although a computer can be a Medmont **client** without having an instrument connected.

Configuration Typical Use

• Administration - Provides centralized functionality for large practices One shared database.

One practice management system.

Central maintenance of licensing.

- **Testing** Exams are conducted from any client computer with an instrument attached.
- **Review** Any computer in the network can act as a review machine, including the server.

Single User Review

The **unlicensed** mode is available when no license has been successfully authenticated. This mode replaces the now obsolete Medmont Studio Viewer.

The physical configuration consists of

- A computer.
- Medmont Studio software.

Configuration Typical Use

- **Review** For a small numbers of exams on a laptop or home PC. Data is transferred from the licensed system using the import/export facilities.
- **Referral to specialists** By a specialist (non-Medmont user) who is sent exam data by a practitioner using a Medmont instrument.
- **Presentation** When giving talks using a laptop and data projector.
- **Spread the word** Give a copy of the Medmont Studio CD to a colleague to try before they buy.

4. Installing the Software

Medmont Studio is provided on a single USB flash drive that contains all the necessary software. To install Medmont Studio from the USB flash drive follow these steps:

- 1. Insert the Medmont Studio USB software key into your computer. After a few seconds a Windows Explorer window will display. If not, launch Windows Explorer and select the new removable drive now listed in the left pane labelled "MEDMONT".
- 2. Next, expand the removable drive and select folder "Medmont Studio". Double-click on file setup.exe to start installing the software.

Common Installation Steps

Medmont Studio requires the installation of the Microsoft .Net (pronounced dotNet) Framework.

If the Microsoft .Net Framework was previously installed, or if your operating system has this package preloaded, then the Medmont Studio will skip the installation of this software package. Otherwise, click *Accept* to install the Microsoft .Net Framework

Medmont Studio Setup	×
For the following components:	
Microsoft .NET Framework 4 (x86 and x64)	
Please read the following license agreement. Press the page down key to see of the agreement.	the rest
	^
MICROSOFT SOFTWARE	
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS	
)FT
SUPPLEMENTAL LICENSE TERMS MICROSOFT .NET FRAMEWORK 4 FOR MICROSO)FT Ţ
SUPPLEMENTAL LICENSE TERMS MICROSOFT .NET FRAMEWORK 4 FOR MICROSO WINDOWS OPERATING SYSTEM)FT
SUPPLEMENTAL LICENSE TERMS MICROSOFT .NET FRAMEWORK 4 FOR MICROSO WINDOWS OPERATING SYSTEM)FT

Figure 1. .NET Framework Accept screen.

The next dialog will show the progress of the .Net installation (if required). Note that if you select cancel at any stage, then the installation of Medmont Studio will not proceed any further.

Once the software packages are installed, click *Next* to start the Medmont Studio installation wizard.



Figure 2. The Medmont Studio Setup Wizard.

The next dialog allows you to define where the associated files will be stored. Medmont strongly recommend that you leave the chosen default path. Click *Next* to proceed. Please note this does not decide where the

Medmont Studio 6.0.0 Setup	-	×
Destination Folder Click Next to install to the default folder or click Change to choose another.		m)
Install Medmont Studio 6.0.0 to:		
C: (Program Files (x86) (Medmont (Medmont Studio 6) Change		
Back Next		Cancel

Figure 3. Installation folder selector.

Note: This step does not decide the location of your patient database. This will be assigned later in the configuration step. This is the location of the application files only.

Next, the dialog asks you to confirm that the installation can begin. Click **Back** if you need to review or change any of the previous options. Otherwise, click the **Install** button and the installation will proceed. At this point the setup process displays a dialog with a progress bar to visualise the file copying process.

₩ U	Medmont Studio 6.0.0 Setup	-	×
Ready to insta	Il Medmont Studio 6.0.0		m)
Click Install to by installation setting	egin the installation. Click Back to review or change ar ngs. Click Cancel to exit the wizard.	ıy of your	
	Back Install		Cancel

Figure 4. Installation confirmation.

With all files transferred, the Medmont Studio Configuration Tool will run and asks you to select from the set of Medmont Studio language translations.

The **Medmont Configuration** tool presents the next series of system configuration dialogs. When the installation is complete, this can be run to re-configure the system at any time from: **Start > Programs > Medmont > Medmont Studio Configuration Tool**

Once the language is selected the next dialog asks you to select the type of Medmont Studio installation.

Installing a Standalone System

Click on the *Standalone* radio button and then on the *Next* button.



Figure 5. Executing mode selection.

The next page of the wizard will ask you what database operation you would like to perform. Once selected click on the *Next* button and the wizard will guide you through the steps of obtaining all of the relevant information to complete that process.

Medmont Studio 6.3.0 Configuration Tool	×
Select the database operation: Upgrade a version 3 database Upgrade a version 4 or 5 database Move existing version 6 database Convert database to SQL Server Create a new database Use an existing version 6 database NOTE: It is highly recommended that you backup your existing data before you proceed.	
Cancel < Back Next >	

Figure 6. List of database operations

Upgrade a version 3 database

You will need to provide the location of the version 3 database files and a new location to store your new database. These locations cannot be the same. Currently Medmont Studio only supports upgrading a version 3 database to an Access database. Once this conversion is complete you can rerun the configuration tool to convert it to SQL Server® or move it to another location if desired.

Upgrade a version 4 or 5 database

You will need to provide the location of the version 4/5 database that you would like to convert as well as the type of database that is being upgraded (Access® or SQL Server®). Version 4/5 upgrades are performed in place and must use the same database type as used previously. Once this conversion is complete you can re-run the configuration tool to convert the type of database or move it to another location.

Create a new database

This operation will create a new, empty database. You will need to provide an empty folder to install the database to and if you are using SQL Server® you will also need to provide the server location and login credentials.

Use an existing version 6 database

If you have successfully run the configuration process before then this will be the default option. If you select this option and have run the configuration process before then the next step will show the path to the previously chosen database, if you would like to change to a different database then press the *Location* button and chose a different database path.

Move existing version 6 database

This option will allow you to move the currently configured database to a new location on the current PC. The destination folder for the database must be empty and please remember when changing your database folder you may need to update any automated backup applications you are using to protect your data.

If you are using an SQL Server[®] database this option will also allow you to move the data to a new server providing you have the relevant login credentials.

Convert database to Microsoft SQL Server® / Access®

This option will allow you to perform an in-place change of the type of database you are currently using. When changing to the SQL Server® technology, as well as requiring valid user credentials you will also need to provide a unique database name. You cannot specify a database name that already exists on the server.

Once you have entered all the required database information, the installation needs to know whether you are integrating Medmont Studio with a 3rd party practice management system. This option seamlessly integrates the patient management of both systems (see *Installing with a 3rd Party Practice Management System* on page 13). We will continue with the *None* option here. Click the *Next* button to continue.



Figure 7. Option to select PMI.

An installation typically consists of one or more Medmont instruments. The next dialog allows you to select which instruments to install. Installing instruments for which you do not have a license will use additional computer resources, but nevertheless does offer a review capability where you can view results produced by those instruments on other computers or from other practices.

@ M	edmont Studio 6.0.3 Configuration Tool
	Select the Medmont Studio components that you wish to make available. (Inclusion may be useful for review purposes, even in the absence of the physical instrument, while leaving out unused components will aid performance.) ✓ Automated Perimetry ✓ Corneal Topography ✓ Diagnostic Imaging
	Cancel < Back Next >

Figure 8. Instrument selection dialog.

The next dialog is associated with installing the Windows Drivers for M700 instrument features and the various digital image frame grabbers associated with the DV2000 and E300 instruments.

Complete the installation of Medmont Studio before connecting or installing the associated hardware for the first time.

Some of these selections may be greyed-out depending on the instruments that were previously selected for installation. Select the drivers associated with your instrument(s).

Me	edmont Studio 6.0.3 C	Configuration Tool	×
	to this computer. M700/M730 Automate Legacy (Leutron) E30	any instruments that you intend to connect ad Perimeter 30 Corneal Topographer. cted via USB converter box will use built in AVT Firewire Driver AVT Firewire Driver Alkeria \ Elite Firewire Driver Point Grey Driver	
	[Cancel < Back Next >	

Figure 9. Windows Driver installation dialog.

The next dialog gives you the option to install the Email linked application. This allows you to send exam's via email directly from the Medmont Studio application. You will need to have a third party email client installed and configured on the PC for this feature to work correctly.

Important: This feature is only intended for use within a secured network environment. Use of this utility over an insecure intranet or the internet is not recommended, as data exchange over these networks is inherently insecure and liable to eavesdropping. Users of this utility bear full responsibility for all issues arising in case of breach of confidentiality and Medmont International Pty Ltd cannot be held liable for any such issues.

Clicking the *Next* button will proceed to the final step of the installation. You now have an option to review your previous steps or cancel the setup. Click **Back** to change any of the previously selected options or click **Cancel** to stop the setup of your software.

Otherwise, click **Finish** to finalise the installation. Once this process completes, and depending on the selected instruments and existing installed Windows Drivers, a number of device driver installers will automatically run. Simply follow the prompts and click on the OK button. If previously configured, the database conversion from another version of Medmont Studio will also happen at the end of the installation process.



Figure 10. Installation complete screen.

The Medmont Studio icon 0 will now appear on the Windows desktop. Additionally, you can also launch Medmont Studio , Medmont Studio Administrator Tools and Medmont Studio Configuration Tools from Start > All Programs > Medmont.

Installing a Server Based System

A server based system consists of a computer with Medmont Studio installed as a database server, and one or more additional computers with Medmont Studio installed as clients, all connected with a standard Windows network.

The server is configured to manage the patient database.

Installing the Server

Install the software as per the previous instructions until you are prompted for a Standalone, Server or Client installation. Click on the *Server* radio button and then the *Next* button.

Medmont Studio 6.0.3 Configuration Tool
Select the appropriate configuration for this computer: Standalone: Single computer set-up Server: The computer where all data database, images, practice management (if present) is stored in a multiple computer set-up Client: Any other computer in a multiple computer set-up
Cancel < Back Next >

Figure 11. Selecting a Server installation.

If you have more than one network connection available in your server computer, the next step of the wizard will ask you which network interface you would like to use to connect to your client PC's. This will be the network card that is connected to your local network and thus, your client PC's.

The installation will proceed from this point exactly the same as the stand-alone installation. When the installation completes the server starts automatically and you should see the Medmont Studio server icon 0 in the Windows desktop tray.

Installed Medmont Studio clients can now connect to the server. However there are a number of steps required to license the server and these are covered in *Running Medmont Studio* starting on page 14.

Installing the Clients

The server installation must be completed, configured, and running on the designated server computer before attempting to install any clients.

Install the software as per the previous instructions until you are prompted for a Stand-Alone, Server or Client installation. Click on the *Client* radio button to select a client computer installation as shown in Figure 12.

Medmont Studio 6.0.3 Configuration Tool
Select the appropriate configuration for this computer: Standalone: Single computer set-up Server: The computer where all data database, images, practice management (if present) is stored in a multiple computer set-up Client: Any other computer in a multiple computer set-up
Cancel < Back Next >

Figure 12. Selecting a Client installation.

The next dialog will present a drop-down list with the names of the computers in your network. Select the computer on which the Medmont Studio server is running, then click *Next*.



Figure 13. Selecting a server.

The next dialog will ask for the instruments attached to this client computer (see Figure 14). Based on your current license, select the appropriate instruments to be installed and click **Next**.

The next step will allow you to install Windows drivers for the appropriate instruments. Some of these selections may be greyed-out depending on the instruments that were previously selected for installation. Select the drivers associated with your instrument(s) and click **Next**.

(()	ledmont Studio 6.0.3 (Configuratio	n Tool		×
	Select software drivers for to this computer. M700/M730 Automat Legacy (Leutron) E3 Topographers come Windows drivers DV2000 Digital Imaging	ed Perimeter 00 Corneal Topo	ographer.		
	Leutron card Picolo card Flashbus card	Alker	Firewire Driver ria \ Elite Firewi t Grey Driver	e Driver	
		Cancel	< Back	Next >	

Figure 14. Final installation dialog.

Review your previous configuration by clicking **Back** if needed. Otherwise, click the *Finish* button to complete the setup.



Figure 15. Installation complete screen.

Lastly, if the setup will only be used for exam review, then the installation is complete. Double click the Medmont icon on the desktop to start Medmont Studio. Check that the Practice database is visible and that patient and exam details are also visible. Whether these can be edited or changed will depend on the permissions given to the particular clinician (see *Setting Permissions* on page 17).

If the computer will have an instrument attached then use the procedure described in the **Installation** section of the relevant instrument User Manual.

Installing with a 3rd Party Practice Management System

You can integrate a 3rd party Practice Management System with Medmont Studio. The option to create a Patient Management Integration (PMI) system is presented during both a Stand-alone and a Server installation.

@ N	ledmont Studio 6.0.3 Configuration Tool	×
	Select the Practice Management System (if any) you wish to integrate. Practice Management Integration requires a separate licence. Practice Management Integration Sunix v Custom]
	Cancel < Back Next >	

Figure 16. Option to select PMI.

When prompted by the configuration tool, select your Patient Management system from the dropdown selection box. The list of supported Patient Management systems will be updated when a new system receives integration support. Please check <u>http://www.medmont.com.au</u> for an up-to-date list.

Click the *Next* button and you will be asked for the location of the PMI data files.



Figure 17. Selecting the path to a 3rd Party Patient management system.

Click the *Location* button to make any changes to the default if required. When you click the *Next* button the install program will examine the entered location for the expected set of files. If they exist the installation will proceed as previous.

5. Running Medmont Studio

Double-click the Medmont Studio icon



on your Windows desktop. A banner with the Medmont Studio logo is displayed while the software loads.

For the First Time

The first time you run the software after installation you will be prompted to install a license as shown in Figure 18.



Figure 18. License prompt.

To install a license select the *License Medmont Studio now* option which will display the License Manger window, please follow the section *Installing a Medmont Studio license*. If on the otherhand you would prefer to run without a license (not connected with an instrument) then you can choose to run as a review station by selecting the *Skip licensing now* option. Selecting skip will prompt you again next time you run the software.

Next you will be asked to register your Medmont Studio software.



Click No if you do not want to register your software now.

Please note that you will be prompted to register each time your software starts until you have successfully registered.

If you click Yes, the registration window will be displayed as per Figure 19.

Registering your software

You can register your software at any time by clicking on the **Help** > **Register** menu. Once selected the Registration window shall be displayed as per Figure 19.

(11)	Registration	×
Contact Name Practice Name Address		*
Country E-mail Phone no License #	· · · · · · · · · · · · · · · · · · ·	. Sin He
Change	Cancel Registe	

Figure 19. Software registration window.

Before proceeding with the registration process please ensure your computer has a working internet connection. If running in a client/server mode the registration only needs to be performed once and can be done from any client computer.

Enter information into all of the available fields. The fields marked with a red asterisk are required fields and must be completed before proceeding. Once all information is entered click on the **Register Now** button. If the registration process is successful the following message shall be displayed.

Registration complete	ed 🛛 🗙
Registration has been complete	d successfully
	ОК

If a different message is displayed please check your internet connection and try again, if the problem persists please contact your local authorised distributor for support. You can update your contact details at any time by opening the Registration Window by clicking **Help** > **Register** and clicking on the **Change** button, modify your details and press **Register Now** again.

You are now ready to start using Medmont Studio.

6. Configuring a Server/Client System

A standalone Medmont Studio system is ready-to-go once the installation completes. However a Server/Client installation will require some additional configuration.

Setup for a Secure System

By default a system installed with a server and several clients will be an insecure system. This means anybody can use Medmont Studio and have full administrator privileges.

This may be an adequate configuration in a small practice. However, in a large practice with many clinicians, or in a teaching environment, the recommendation is for a password-protected system. This allows the system administrator some control over the access each clinician has to the Medmont Studio capabilities. For example, a clinician (or more correctly, a particular password) can be prevented from deleting patients, or from (re-)configuring instruments. In a teaching situation, students can be issued with a generic password that only allows for creating patients and performing tests.

Password protection can be useful even for a small practice, where the system is normally accessed via a password that allows everything except patient deletion. For this case the clinician must log back in using the admin password. This action therefore requires a specific step, and helps to prevent inadvertent deletions.

Setting the Administrator Password

The first step is to setup the administrator password. With Medmont Studio running, on the **Configure** tab, click **Set Password**. It will present the login dialog shown here.

8	Set Password: admin				
	New Password Confirm Password				
	Cancel OK				

Fill in and confirm the password you will use to administer the networked Medmont Studio system. The name "admin" has by default all the permissions shown in Figure 21.

Adding Clinicians

The next step is to register the clinicians who will be using the system. On the **Configure** tab, click on **Clinicians** to display the **Clinicians** dialog shown in Figure 20

	Clinicia	ans	
 Only show clinicians 	s with log-on names		
Logon	Name	Description	New
JackJ	Dr Johnson, Jack	Visiting optometrist	Edit
			Delete
			Refresh
			Close

Figure 20. Manage the Clinicians in the Practice dialog.

Click the *New* button in this dialog to display the **New Clinician** dialog shown in Figure 21. Fill in the text boxes in the Details section. By default this clinician will be enabled to use the system with the **Enable Logon** checkbox ticked. Enter the name the clinician will use to log on to Medmont Studio into the **Logon** text box. Click the *Set Password* button and enter their password.

Setting Permissions

If you tick the Administrator checkbox that clinician will have access to all the listed options.

If you click nothing then that clinician will be able to review results only.

Tick the other options as your situation requires.

å	New Clinician
Details Title Last Name First Name Description	Permissions* Admin Edit Patients Delete Patients Delete Entries Delete Entries Edit Instruments Edit Netruments
✓ Enable Logon Logon	* When no permissions are checked the clinician is limited to review-only access.
	Cancel OK

Figure 21. Enter and Edit the New Clinicians dialog.

You can prevent a user from logging on by un-checking the Enable Logon checkbox if necessary.

Database management

A separate program to Medmont Studio performs database management.

<u>@</u>	Medmont Administrator Tool
Data management Passy	words
Warning	Before you proceed 1. Make sure you are logged in as Administrator 2. Close Medmont Studio software 3. Back up your data
Installation Data Location Data Size	Standaione C:\ProgramData\MedmontMedmont Studio S\Data 71.1 MB Compact And Repair
Close	

Click on **Start > Programs > Medmont > Medmont Studio Administrator Tool**. The Data Management tab on this dialog provides the path to and size of the Medmont Studio database. Prior to running a system backup (see *Data Backup* on page 54) execute the steps listed on this dialog.

The Passwords tab has a single button that will clear the Medmont Studio administrator password.

Session Management

A client logged on to the system constitutes a *Session* (see also *Session Licenses* on page 47). You can review the current sessions at any time by clicking the **Tools > Session Manager** menu entry.

5	Medmont Studio Session Manager							
Sessions	Locks							
	Logon		١	Workstation	n	Log	on Time	
admin		т	ESTPC			19-Sep-2014	4 2:58:24 PN	
Kill Se	ssion	Refre	sh				Close	

Figure 22. Medmont Studio Sessions Manager.

The administrator can kill a session at any time by selecting the entry and clicking the *Kill Session* button. This does not literally kill the Medmont Studio application on the client computer, but just disconnects it from the database.

If the session is in use there is a strong possibility of data loss for that session.

Database Locks

When a client computer accesses the database by examining a patient's details or by viewing an exam, there is nothing stopping another client computer examining that same patient or exam. However, as soon as one client attempts an edit function like adding some patient details or annotating an exam, that entry in the database will be locked. Because an editing session may consist of several edits, the item will remain locked until it is dismissed, typically by the clinician saving it or by moving on to the next patient or exam.

While an entry is locked, if another client attempts to change the same entry, they are immediately presented with a message indicating that someone else has that entry locked.

As an example, if a clinician on client computer A is adding comments to a particular patient's record, and a clinician on client computer B also attempts to add some comments to the same patient record, client B will be presented with a warning message about the record being locked the instant typing starts. In effect he or she will be prevented from typing anything at all.

As soon as client A moves on, the lock will be removed. At this point if client B tries once more to add his or her comments, at the instant typing starts a message will be presented stating that another user has changed this record. Clicking OK on the message will update the client B display, showing the changes made by client A. Client B can now see these new comments as well as being free to start entering further comments.

Clicking on the **Locks** tab in the Session Manager dialog shown in Figure 22 will show the current set of database locks.

7. Practice Management System Integration

When Medmont Studio is operating with Practice Management Integration (PMI) activated, it smoothly integrates the patient management of a 3rd party Patient Management system with its own Patient management. Medmont Studio uses the 3rd party system only as a source of patient data - it cannot change the data in any way.

An additional license is required to connect Medmont Studio to a 3rd party Practice Management system.

Patients who are listed in Medmont Studio are those for whom an examination has been performed using a Medmont instrument. A new Medmont Studio installation will therefore have no patients listed even though the PMI may have hundreds.

While you can still create patients with Medmont Studio by clicking on the Create New Patient icon, they will be unknown to the PMI.

Adding a New Patient in Medmont Studio

The idea is to link Medmont Studio to a patient entry in the PMI. The technique is to use the **Find Patient** menu entry when starting a new exam. This displays the Find Patient dialog, which for a PMI system is directly linked to the 3rd Party Patient Management system database.

Å	Find Patient		×
Last Name	B*		Clear
First Name			Clear
External ID			Clear
Date of Birth	Clear		
Matching Patients Last Name	First Name	Birth Date	Sex Ex
Blake	Matthew		Male
Blood	John Andrew		Male Male
Breaden	Andrew Warren		Male Male
Briggs	warren	20 001 1917	mare
👗 Search 🖸 Re	fresh	Cancel	ОК

Figure 23. Find a Patient in 3rd party Management System.

Figure 1Figure 25 shows the range of selection options for a patient search. At this point it is more than likely you will have the PMI application open prior to starting Medmont Studio as part of your initial patient interview. This implies the patient either already existed there or you have just entered the details for a new patient. Now use the Find Patient dialog to copy the patient details to Medmont Studio.

The quickest method is to copy the 3^{rd} party Management System patient ID number into the Medmont Studio **External ID** field and click the *Search* button. This will produce a guaranteed singular match. Click *OK* to create a matching patient entry in Medmont Studio.

The alternative is to enter some search criteria into one or more of the text boxes. In Figure 23 the clinician has entered B* in the last name box and then clicked the *Search* button. This will search for all names in the PMI that start with "B", as the asterisk is shorthand for "match anything" (see *Searching by Patient Name* on page 29). The search example located three patients. Select the correct one and click *OK* to create a matching patient entry in Medmont Studio.

Synchronising the Databases

If for some reason a patient has been entered into Medmont Studio without being linked to the PMI, you can reconcile the entry at some later time.

First select the patient in Medmont Studio and on the **Home** tab, click on **Synchronise Current**. If the details previously entered into Studio match those in the PMI, this will reconcile the two

entries, automatically adding the PMI external ID to the Medmont database. The ID will now be visible in the patient details External Record box.

What if there is no matching entry in the PMI database? As an example, suppose someone had previously entered a patient called *Peter Adams* with a birth date of 14-5-1956 and proceeded with some exams but without linking to the PMI. Perhaps the network was down. At some later time it is noticed this patient has no external ID number. Select this patient and on the **Home** tab, click on **Synchronise Current.** Medmont Studio displays the dialog in Figure 24, indicating no matching entry in the PMI.

<u>9</u>	Find Matching External Patien	t	×
Medmont Studio was una matches the given Medm	ble to locate a unique patient record in ont Patient:	the external d	atabase that
Last Name	Burton		
First Name	Mary		
Date of Birth	1 Jan 1990		
	low to locate the matching external pati elected external patient record or Skip to		
Search for Matching Exte	rnal Patients		
Last Name	Burton		Clear
First Name			Clear
External ID			Clear
Date of Birth	1 Jan 1990 🗐 🔻 Clear		
Last Name	First Name	Birth Date	Sex Ex
💇 Search 🖸 R	efresh	Skip	ОК

Figure 24. Example No Patient Match in PMI dialog.

The next step is to check if there is such a patient as *Peter Adams* in the PMI. On the **Home** tab, click on **Find**, entering this name and then clicking the *Search* button shows the dialog of Figure 25.

	Find Patient			>
Last Name				Clear
First Name				Clear
External ID				Clear
Date of Birth	Clear			
Matching Patients				
- Last Name	First Name	Birth Date	Sex	Ex /
Last Name Citizen	John	26 Aug 1961	Male	Ex /
Last Name Citizen Denham	John Ada	26 Aug 1961 18 Dec 1926	Male Fem	Ex ,
Last Name Citizen	John	26 Aug 1961	Male	Ex ,
Last Name Citizen Denham	John Ada	26 Aug 1961 18 Dec 1926	Male Fem	Ex ,
Citizen Denham E32268	John Ada CN1110	26 Aug 1961 18 Dec 1926 1 Jan 1990	Male Fem Male	Ex /
Last Name Citizen Denham E32268 Eye	John Ada CN1110 Composite	26 Aug 1961 18 Dec 1926 1 Jan 1990 1 Jan 1990	Male Fem Male Male	Ex ,

Figure 25. Example search PMI database.

The dialog shows that there is such a person, but that the birth date is 14-12-1956 rather than the 14-5-1956 entry in the Medmont Studio database. Re-doing the **Synchronise Current** sequence and clicking on the **Clear** button for the Date of Birth entry will remove that criterion. Now clicking on the **Search** button will find this patient and clicking **OK** will update the Medmont Studio database with a complete entry.

<u>9</u>	Find Matching External Pat	ient	×
Medmont Studio was una matches the given Medn	able to locate a unique patient record nont Patient:	d in the external o	database that
Last Name	Burton		
First Name	Mary		
Date of Birth	1 Jan 1990		
	elow to locate the matching external elected external patient record or Sk		
Search for Matching Exte	ernal Patients		
Last Name	Burton		Clear
First Name			Clear
External ID			Clear
Date of Birth	Clear		
Last Name	First Name	Birth Date	Sex Ex
👗 Burton	Mary	5 Apr 1964	Fem 22
🔮 Search 🖸 R	efresh	Skip	OK

Figure 26. Example patient found dialog.

8. Overview

The User Interface

Medmont Studio has a single main *Windows Explorer* style user-interface, and provides point-andclick access to its capabilities. The user can swap between instruments and most tasks with a single mouse click.



Figure 27. Studio Main Window.

The main window shown in Figure 27 is divided into three areas:

Explorer pane: Lists patients and exams. These can be selected by mouse click. Filtering, sorting and searching are also supported.

View pane: Displays the current patient(s) or exam(s) selected in the Explorer pane.

Ribbon: Tabs to select a function with a single mouse click. Examples are entering a new patient or creating, analysing and editing an exam.

These are described in detail in subsequent sections.

9. The Explorer Pane

The Explorer pane allows you to select the data you wish to display. The *Patients* view (Figure 28) displays patients within the Medmont database as top level elements, with exams for each patient displayed under them.



Figure 28. Explorer pane showing the Patients view

The *Exams* view (Figure 29) shows exams within the Medmont database as top level elements and allows you to sort, filter and select exams across all patients.



Figure 29. Explorer pane showing the Exams view

You can select either of these views by clicking on the respective selection tab along the bottom of the Explorer pane as shown below. Additional tabs for specific instruments may also be present depending on the installed components. The data displayed within the *Patient* and *Exam* tabs depends on the width of the Explorer pane. Expanding the explorer pane (by dragging the splitter bar) displays additional information in columns which can be sorted and arranged.

Sample Data

If this is the first time you have used Medmont Studio, you can become familiar with most aspects described in this and the instrument manuals by importing the various sample data sets on the distribution CD. There is sample data for the M700, E300 and DV2000 instruments and a corresponding set of patients.

Click on the **File menu**, then click **Import** and navigate to the **Sample Data** folder on the CD. You can import any or all of the files (although only one at a time).

Changing the Size and Position of the Explorer Pane

A vertical *splitter bar* separates the Explorer pane from the View pane (see Figure 29). The size of the Explorer pane can be changed by clicking and dragging the splitter bar to the left or right. The View pane rescales itself correspondingly. Both the *Patient* and *Exam* tabs automatically reformat the displayed data when more space is available to display data in columns which can be sorted and arranged.

A horizontal scroll bar will appear along the bottom edge of either pane if required.

Docking and Undocking

Double clicking on the title bar of the Explorer pane undocks the Explorer pane turning it into a free-floating window. This creates maximum space for the View pane. If your system has dual monitors, dragging the Explorer pane to the other monitor leaves the View pane full-screen.

Double clicking the title bar again re-docks the Explorer pane in its usual spot (left of the View pane).

Unpinning and Pinning

Clicking on the Explorer pane vertical drawing-pin icon (see Figure 30) *unpins* the pane. The pin will change to a pin lying on its side and the pane will slide off screen to the left of the main window and auto-hide itself when not in use. The pane appears as a thin vertical strip containing the same set of filter icons as were across the bottom of the expanded pane.

atient	S	
		~
Þ	Blood, John 10 Sep 1943	^
▶	Breaden, Andrew 24 Dec 1934	
⊳ 8	Briggs, Warren 20 Oct 1917	
⊳ 8	Canon, CR6-45NM 11 Oct 1990	
⊳ 8	Cherry, Steven 16 Jan 1953	
▶	Citizen, John 26 Aug 1961; Corneal Scar; Corneal graft	
Þ	Denham, Ada 18 Dec 1926	



Figure 30. Explorer pane docking pin location.

When the Explorer pane is unpinned, a single click anywhere on the expanded selection tab in this strip will temporarily expand the Explorer pane. Any one of the selection tabs can be selected by hovering the mouse cursor over the tab for a short period - no click is required.

Clicking on the horizontal pin turns off auto-hide.

The Patient View

The patient view lists all patients known to the system in (by default). An icon represents the patient's gender.



If the patient has exams stored on the system a small \triangleright symbol will be visible to the left of their name. Clicking on this symbol will show the exams for that patient, and the symbol will change to a * symbol. Clicking on this symbol will hide the exams again and restore the original \triangleright symbol.

The same symbol will appear for some types of exam that have associated sub-items.

Expanded Patients View

The Patients View can be expanded (see Figure 31) to show a tabular list of the patients and their exams. The width of the columns can be adjusted by clicking on the vertical line separating adjacent column headings and dragging left or right. Columns can also be moved and reordered by clicking on the column header and dragging.

	Agune Move To Copy To Digi Ima	ital Corneal Cor	stact Perimetry	sylic Add sylic Organise sylic Goto						For
Patient	Exam	New Exam	1	Favorites						
Patients									3	
1									~	
9 Patient / Exam	Last Name	First Name	DOB	External ID	Sex	Procedures	Conditions	Categories	^	
Blood, John	Blood	John	10 Sep 1943		Male					
Breaden, Andrew	Breaden	Andrew	24 Dec 1934		Male					
Briggs, Warren	Briggs	Warren	20 Oct 1917		Male					
Canon, CR5-45NM	Canon	CR6-45NM	11 Oct 1990		Male					
Cherry, Steven	Cherry	Steven	16 Jan 1953		Male					
Elitzen, John	Citizen	John	26 Aug 1961		Male	Corneal graft	Corneal Scar			
🕨 🛔 Denham, Ada	Denham	Ada	18 Dec 1926		Female					
E32268, CN1110	E32268	CN1110	1 Jan 1990		Male					
Eye, Composite	Eye	Composite	1 Jan 1990		Male					
Fifer, Michele	Fifer	Michele	6 Nov 1959		Female					
Fredericks, Fred	Fredericks	Fred	13 Apr 1920		Male					
Handle, Maurice	Handle	Maurice	13 Sep 1926		Male					
Harrison, Emma	Harrison	Emma	26 Mar 1990		Female					
Hennessy, Pauline	Hennessy	Pauline	25 Apr 1919		Female					
James, Dorothy	James	Dorothy	19 Nov 1916		Female					
Jolly, Nick	Jolly	Nick	26 Mar 1960		Male					
Jones, Chris	Jones	Chris	18 Nov 1971		Male					
King, Sue	King	Sue	19 Mar 1961		Female					
Love, Sarah	Love	Sarah	17 Sep 1976		Female					
Madison, Charlie	Madison	Charlie	4 Jun 1974		Male					
Maenhout, Johnny	Maenhout	Johnny	14 Nov 1964		Male					
Marshall, Trevor	Marshall	Trevor	13 Aug 1962		Male					
McCallister, Pip	McCallister	Pip	23 Dec 1954		Female					
Mills, Karen	Mills	Karen	9 Oct 1955		Female					
Mowbray, Lois	Mowbray	Lois	19 Jun 1918		Female					
Norman, Douglas	Norman	Douglas	9 Jan 1937		Male		Normal			
D Crmond, Robert	Ormond	Robert	9 Jun 1913		Male		Normal			
Patterson, Stefanie	Patterson	Stefanie	20 Sep 1928		Female					
 Peterson, Margaret Preston, Nola 	Peterson	Margaret Nola	8 Nov 1944 11 Feb 1922		Female Female					
 Preston, Nola Radford, Christine 	Preston Radford	Nola Christine			Female					
		John	21 Aug 1970 9 Jan 1990		Female Male					
Barrier Barres, John States	Rogers	John Rite	9 Jan 1990 24 Feb 1907		Male					
 Byan, Rita Senior, Lynn 	Ryan Senior	Rita Lynn	24 Feb 1907 16 Jun 1924		Female					
 Smith, Ben 	Smith	Ben	16 Jun 1924 17 Jan 1936		Male					
	arnim	uen	17 Jan 1936		Male				~	
< Al								>		

Figure 31. Studio Main Window showing the expanded Patient View.

Adding a Patient

From the Medmont Studio main window, on the **Home** tab, click on the **New** button to bring up the New Patient dialog shown in Figure 32.

80	New Patient	×
General	Clinical Comments	
	Title	
	Last Name	
	First Name]
	Middle Name]
	Date of Birth 1 Jan 1990]
Ð	ternal Record]
	O Male Sex O Female	
	Cancel Save	

Figure 32. New Patient dialog.

Text entry boxes in Medmont Studio such as **Last Name** and **First Name** in Figure 32 use *Auto Case* by default. For details of how this effects entering patient details, see *Auto-Capitalisation* on page 43.

The General tab provides for entering a standard set of patient identification parameters such as Name, Date of Birth, Gender, etc. The External Record entry can be used to link the patient to a 3rd party patient management system.

The Clinical tab dialog shown in Figure 33 provides for selecting clinical details that describe the patient's condition. The Current Refraction entries provide for recording a current prescription and are quite straightforward. You can enter numbers directly or by using the up/down spin buttons.

Å.		New Patient	×
General	Clinical	Comments	
Pro	cedures		~
Co	nditions		~
c	ategory		~
Curr	Right +	tion Sphere Cylinder Axis 0.00 ♀ +0.00 ♀ x 0 ♀ 0.00 ♀ +0.00 ♀ x 0 ♀	
	Vertex	Distance 12.0	
		Cancel Save	e

Figure 33. New Patient Clinical tab.

The three drop-down boxes will present selections from your practice set of categories as entered into the **Configure** tab, **Lookup Fields** option, as shown in Figure 34. Use the Custom Fields dialog to enter Procedure, Condition and Category descriptions (both patient and exam) that apply in your practice. Note that you cannot make *new* entries in the Clinical tab from the New Patient dialog; they must be entered from the Custom Fields dialog.

The Comments tab of the New Patient dialog presents a simple text-editing window into which you can enter any relevant details. Once comments have been entered an indicator icon \leq shall appear in the title for the comments tab.

±9	Custom	Fields	×
Туре	Procedure	*	
Cataract / Comeal gra			New
Lasik Ortho-K			Edit
PRK			Delete
RGP RGP Conta RK	ict Lens		Refresh
			Import
			Export
			Close

Figure 34. Custom Fields Entry and Editing dialog.

The Refresh Button

The *Refresh* button in Figure 34 and other dialogs in Medmont Studio software only have a real function in a networked system. In these systems, clicking the button will update the items associated with the current dialog from the central database. Thus if items have been edited on one client computer, they can be updated on any other client computer by clicking the *Refresh* button in the relevant dialog.

Editing a Patient

If you click on an existing patient you will see the same dialog shown in Figure 32, only now the title bar will show the selected patient's name and the various fields will be filled with data. You can use the dialog to review the patient's details or make any changes that may be required.

Selecting Explorer Pane Items

To select a single item in the Explorer pane, such as a name, click on the symbol or the label to the right of the symbol (in the tree) or anywhere on the line (in other views). The selected item will be highlighted and the View pane will show data or image for that item. Figure 35 shows a patient



with the exams shown, a particular exam selected (shown highlighted), and with that exam displayed in the View pane.

Figure 35. Selecting and Displaying an item from the Patient Explorer pane.

Selecting Multiple Items

To select multiple items, hold down the control key while selecting additional items.

To select a range of items, select the first item in the range and then select the last item in the range while holding down the shift key *or* simply drag the mouse while holding the left button down, over the items you wish to select.

Filtering

The Patient View provides three *One* and *Filter*. These are selected list just above the tabs at the bottom



filter modes: *All*, from the dropdown of the Explorer

pane. The message "xx found" beside the selector, indicates how many matching patients can be seen using the current filter.

The selections are:

- All shows all the patients in the system.
- **One** shows the currently selected patient. This is especially useful where privacy is a concern, for example when showing a patient her or his exam; it will prevent that patient seeing a list of your other patients.
- Filter pops up a custom filter that allows the user to specify more detailed criteria.

Selecting the Filter option will display the dialog of Figure 36 that demonstrates the very extensive patient filtering capabilities of Medmont Studio. As a simple example, with this dialog displayed, click on the *Female* radio button and then the *Apply* button. You should see the Explorer pane redisplay with just the female patients.

8.	Patient Filter	×
Standard Advanced		
Patients With		
Date of Birth		Clear
Sex	○ Male ○ Female	Clear
Procedures	¥	Clear
Conditions	¥	Clear
Categories	¥	Clear
Who Have		
Seen Clinician	~	Clear
	Find Patients Without a Clinician	
Attended Practice	¥	Clear
	Find Patients Without a Practice	
Exams between	and T	Clear
Clear All	Cancel Apply C	к

Figure 36. Patient Filter selection dialog.

This dialog provides for selection based a number of standard selection criteria. The Advanced tab however, provides for considerably more detailed selection. The initial dialog is shown in Figure 37.

Patient Filter	×
Standard Advanced	
Conditions are AND-ed (Intersection) Conditions are OR-ed (Union)	
	New
	Edit
	Delete
	Clear
Clear All Cancel Apply	ОК

Figure 37. Advanced Filter dialog.

You may create a number of conditions via the *New* condition button, and the resulting selection will be based on each and every one being true if you leave the default *AND* radio button selected. Otherwise only one of the conditions need be true if you select the *OR* button.

Click on the *New* button to define a new simple condition.

4<2	New Simple Condition					
Field		Operatio	n	Value		
Last Name	~	Like	~	*		
Compare to a value						

Figure 38. Advanced Filter Simple Condition entry dialog.

The Simple Condition dialog shown in Figure 38 provides for selecting a field variable and equating it in some way with a value or perhaps with another field. A *field* in the Medmont Studio condition context is a patient or exam *attribute*. A Patient attribute would be age, name, gender, etc, while Exam attributes are items like an M700 threshold exam false positive count or an E300 exam iris area.

The drop-down **Field** box allows for selection of the particular attribute. The drop-down **Operation** box provides for selecting from the criteria list, and the **Value** drop-down box provides for selecting a comparison value.

Note that this dialog can extend the width of the **Field** drop-down box by clicking and dragging the left or right edge.

Taken together, the set of simple conditions and whether they are ANDed or ORed provides for very powerful analysis of your patients and their exam results.

Searching

The Patient view has a search box at the top of the pane. It normally reflects the current patient selection.



Figure 39. Patient name Search box.

Searching by Patient Name

Type the *last-name* or a combination *last-name*, *first-name* to search for a particular patient. If a unique match is found that patient will be selected. Otherwise the **Find Patient** dialog will appear and you can use this to find the patient. The dialog will also appear where the search criteria is not sufficiently unique, such as entering "mi" when the patient database includes a Mills and a Mitchell.

Recently selected patients can also be found by clicking on the down arrow beside the search box.

Some additional points about searching are:

- The search is not case sensitive.
- Entering in the first few letters of the surname may be sufficient.
- You may enter patterns:
 - ? stands for any single character (e.g. Jons?n will find *Jonson* and *Jonsen*)
 - * stands for any group of characters (e.g. St*s will find *Sticks* and *Stones*)

Tip: Entering (for example) c,j will find all patients with the initials J C like John Citizen.

Searching by patient External ID

You can search by the patient external identifier (the patient index in a 3^{rd} party Patient Management system). If these are numeric, then just enter the number, eg. 2345. If your 3^{rd} party system uses an alphabetic or alphanumeric index system, then you must precede the identifier with the hash "#" character to distinguish the identifier from a name, eg. #DF451. No *pattern* search is available for external IDs.

Searching a 3rd-party Practice Management

If a 3^{rd} party practice management is installed the patient search is first carried out in the 3^{rd} party database.

If a unique match is found this will result in pertinent information about the patient being read from the 3^{rd} party database into Medmont Studio. The information for that patient is either added to Medmont Studio or updated (the two databases are *synchronised*).

Search Behaviour and the Different Filter Modes

The exact effect of a search depends on the current filtering:

- All The selection jumps to the sought patient (the simple case).
- One The selection changes to the sought patient.
- **Filter** If the sought patient is in the filter result, the selection jumps to that patient; otherwise filtering reverts to **All** and the selection then jumps to that patient.

Sorting

The sort order for both Patient and Exam views can be changed by expanding the view to display columns and then clicking on a column heading to sort by that criterion (see Figure 31). A second click reverses the order of the sort.

A small arrow in one of the column headings indicates the current sort criterion and the direction of the sort (ascending or descending).

Using the individual column headers to sort the exams belonging to each patient does not change the patient list order, only the order of the exams belonging to that patient.

Using Favourites

The Favourites menu allows you to add a shortcut to frequently accessed patients and exams.

%	Organise Favorites	×
Blood, John Cherry, Steven		Edit
Denham, Ada		Delete
		+
		+
]	Close

Figure 40. Organise Favourites dialog.

Select the item in the Explorer pane and on the **Home** tab, click **Add Favorites** to add a shortcut to the item in the Favourites menu. You can optionally rename the shortcut to indicate its purpose. The new shortcut is then shown under the **Goto** drop down box within the Favourites group.

The **Organise Favourites** displays the dialog shown in Figure 40. This allows you to change the order of shortcuts by selecting the shortcut and using the up or down arrows, or to edit or delete the selected shortcut.

You can jump to a favourite entry by clicking on it in this dialog. The item referenced by the shortcut will be displayed in the View pane and selected in the Explorer pane.
10. The View Pane

The View pane is the area to the right of the Explorer pane. It displays graphics and information for the patient or exam selected in the Explorer pane.

The exact display depends on the current view mode set using the View menu or toolbar. What is displayed depends on the Medmont instrument associated with the selected exam, and this is covered in the respective instrument manuals.

Displaying Multiple Views

When multiple items are selected in the Explorer pane the View pane will display (if possible) a separate view for each selected item.



Figure 41. Multiple Views.

For this to be possible each selected item must have a view mode that supports Multiple Views. If more than four items are selected, or one of the selected items does not support Multiple Views then no views are displayed.

The title bar of one view is drawn in a different colour to indicate that this is the *active* view. The menus and toolbars displayed are determined by, and relate to, the active view. You can change the active view by clicking on the title bar of another view.

Any of the views can be temporarily made to fill the View pane by clicking on the \Box *explode* button or double-clicking the view's title bar. To restore the Multiple View display, click on the \Box *implode* button or double-click on the view's title bar.

You can use the zoom and pan controls in this view and the translations will apply to all images. The Ctrl-I key for example, will zoom in on all four images, and the Ctrl-O will zoom them out. Note that if you have a wheel mouse, the wheel allows you to zoom in and out on just the currently active view.

Thumbnail View

Some Explorer pane items provide a special kind of multi-view known as the **base** *thumbnail* view. This View displays a thumbnail image of each item belonging to the current selection (typically a patient). For example, the Thumbnail View for a patient displays images of all exams for that patient (see Figure 42).



Figure 42. Thumbnail View.

By default, this view will show a 4x4 grid of the patient's exams, but this configuration can be changed on the **Configure** tab, by clicking **Preferences**, under the **Review Pane** tab to allow for more (or less) rows and columns.

If the number of exams for that patient exceeds the number of grid squares (e.g. sixteen grid squares for a 4x4 grid), a vertical scrollbar will appear, allowing you to scroll through the images.

11. The Ribbon Menu

The following lists the contents of each tab, and gives a brief summary of what each function performs when selected from those tabs. Tabs and function will vary depending on which instruments are installed or what exam is selected.

Items that are inappropriate for the current exam(s) or patient(s) appear *greyed out* (disabled), and clicking will have no effect.

File Menu

Print - Print a report based on the currently selected patient(s) or exam(s).

Print Preview - Preview the appearance of a print report.

Refresh – Forces an update of data from the database. Useful in client/server configurations where users on other computers may be making simultaneous changes to the database. **Export -** Export a file summarising the currently selected items and other information on which they depend. For example, if an exam is selected, the essential information about the clinician who conducted the exam will be included in the export file.

Import - Reads in a file created by Export.

Close - Close Medmont Studio.

Home Tab

Find – Search for a particular patient based on their name, birth date, or external ID if using 3^{rd} party practice management.

New - Create a new *Patient*

Delete - Permanently delete the currently selected patient(s).

Note - deleting a patient will also delete *all* of that patient's exams.

Move To – Copies the selected exam(s) from the current patient to a different patient, and removes them from the current patient. Moving exams whilst a patient is selected moves all exams belonging to that patient to a different patient.

Copy To – Duplicates, without removing, the selected exam(s) from the current patient to a different patient. Copying exams whilst a patient is selected copies all exams belonging to that patient to a different patient.

Delete - Permanently delete the currently selected exam(s).

Digital Image – Opens the DV2000 exam window.

Corneal Topography – Opens the E300 exam window.

Contact Lens – Fit a Contact Lens to an existing E300 exam.

Perimetry Exam – Opens the M700 exam window.

Synchronize All – Synchronise all exiting Medmont Studio patient data with an integrated 3rd party Practice Management System

Synchronize Current – Synchronise the currently selected patient's data with an integrated 3rd party Practice Management System

Link unlinked – Link a patient in Medmont Studio that is not already linked with an

integrated 3rd party Practice Management System

Add – Add a patient or exam to the Favourites list.

Organise – Change the order of favourites in the list or add/delete an entry.

Goto – Select a Favourite that has previously been added.

Links - Export data to 3rd party tools, for example contact lens designer tools or email results.

Configure Tab

Set Password - Change the password of the current user. **Change User** - Switch users without restarting the application. **Practices -** Add, modify, import or export associated practice names. **Clinicians** - Add or modify clinicians using Medmont Studio and assign or edit their passwords and security access. **Lookup Fields** - Define or edit *conditions*, *procedures*, *categories* (of exams), and *categories* (of patients).

Attributes – Displays the Attributes management dialog.

Licence – Check, install and update licensing details.

Session - Check who is logged on and has exclusive access (*data locks*) to particular patients and exams.

Preferences – Set global preferences for Medmont Studio.

Instrument Setup (M700) – Opens the M700 instrument setup window, allowing you to install, uninstall and calibrate your M700 instrument

Template Setup (M700) – Opens the M700 Template setup window so Test Templates, used for M700 exams can be created, modified, imported and exported

Instrument Setup (E300) – Similar to the M700, this button opens the E300 instrument setup window, allowing you to install, uninstall and calibrate your E300 instrument **Calibrate** – Calibrate your installed E300

System Settings – allows you to configure to adjust the Eccentricity and Shape Factors, the height and Wavefront errors which affects the attribute values.

Image Sources – provides access to the Images Sources dialog, allowing you to setup an image source to create DV2000 exams.

Custom Operations – provides access to the Custom Operations dialog allowing you to create a custom operation with its own icon.

View Tab

The View tab provides buttons to allow you to select the data view to display in the View pane. The available views depend on the item(s) selected in the Explorer pane.

The available views when a patient is selected are:

Details - View and edit personal details and clinical notes.

Thumbnail - Shows thumbnail-sized images of all the patient's exams.

Regression - Statistical analysis tools.

For exams, views include a primarily text-based **Details** view, together with a variety of instrument-specific graphic views.

Help Menu

Links to the various electronic User Manuals and other useful information. See *Help* on page 37 for more details.

12. The Ribbon

Medmont Studio uses a tabbed ribbon style interface. The ribbon tabs are organized into groups and are labeled according to the function. For example, the **Home** tab contains all function for creating a new patient or exam. All functions have an icon and are labeled, to assist the user with identifying functions.

0 🕹 💐					
File Home Conf	figure				
	Move To Copy To Delete	Digital Corneal	Contact Perimetry Lens Exam	r∯add Ma⊡Organise MagGoto →	
Patient	Exam	New E	xam	Favorites	

Figure 43. Home Tab.

There is also a quick access toolbar which can be used to store a shortcut to a function. The toolbar will become available when a quick access shortcut has been added and is located in the title bar.

The toolbar looks like this:



Figure 44. Quick Access Toolbar

By right-clicking on an icon, you can choose from one of the following options:

Add to Quick Access toolbar – creates a shortcut to the function in the Quick Access toolbar.

Customize the Quick Access toolbar – Opens a dialog box where changes can be made to the quick access toolbar. See (*Customizing the Quick Access toolbar*).

Place Quick Access toolbar below the ribbon –Moves the quick access toolbar below the ribbon.

Minimize the Ribbon – Hides the ribbon, only leaving the tab labels. To access functions when the ribbon is minimized, click the required tab, which temporarily displays the ribbon containing those functions. The ribbon will then minimize once a function has been selected. To leave the ribbon on permanently again, double-click on a tab label.

Customizing the Quick Access toolbar:

To customize the toolbar, first right-click on an icon and click **Customize the Quick Access toolbar**. Functions are broken down into groups. Select the appropriate group from the **Choose commands from** drop down menu and the functions will then appear on left hand side of the divider. Click a function and click add. Functions for the quick access toolbar will now appear on the right hand side of the divider.

The Ribbon

Cu	istomize	Quick Acces	s Toolbar	×
Choose commands from: Active View	•		Digital Image Corneal Topography	
EThumbnail Details Image Compare Thumbnail Image		<u>A</u> dd >> <u>R</u> emove	Perimetry Exam New	
Compare Thumbnail	▼ Toolbar bel	ow the Ribbon	OK Can	cel

Figure 45. Customize the Toolbar

You can also remove a function from the quick access toolbar by clicking on it from the right hand side of the divider and clicking remove. Once all changes have been made, click OK.

Placing the quick access toolbar below the ribbon can also be done from this dialog box. Click the box next to **Place the quick access toolbar below the ribbon** and then click OK to enable this option.

13. Help

The **Help** menu provides access to the User Manuals for Studio and the installed instruments. These are in PDF format and therefore require the installation of a PDF reader such as Adobe Acrobat or similar. Adobe reader is freely available on the Internet at http://get.adobe.com/reader/.

The individual manuals include a Bookmark page organised as a directly accessible table of contents that indexes the main section headings. Press F6 to show the bookmarks page or click on the sidebar. Clicking on an entry will navigate to the corresponding page.

Also directly accessible are the internal links within each document such as the italicised chapter headings, page numbers, Figures and Tables. Move the mouse cursor over any of these links and the cursor will change to a pointer. Clicking on any of these will move the displayed page to the reference. Use the **Previous View** button on the Acrobat toolbar to return to the original page.

14. Annotations

Medmont Studio allows you to define eight types of shapes on your exam images. These are shown in Figure 46.



Figure 46. Available annotation shapes.

- Ruler Annotation
- Circle Annotation
- Ellipse Annotations
- Rectangle Annotation
- Square Annotation
- Curved Area Annotation
- Freehand Area Annotation and
- Polygon Area Annotation

Click on the desired shape tool from the **Annotate** tab. Move the mouse to the image pane, the mouse cursor changes to reflect the type of shape being drawn.

See the individual instrument manuals for examples of how to use Annotations.

15. Attributes

Attributes are named values that apply to a particular type of exam result. They may be a physical measurement or dimension, or they could be a number that is the result of applying some statistical based calculation.

Medmont have supplied a large set of standard attributes for each instrument. In many cases you can extend these attributes or use the underlying exam results to derive your own.

The tools and methods to explore attributes are common to all instruments, with each manual including detailed explanations.

16. Printing

The Print Dialog

The **File > Print** and **File > Print Preview** menu items bring up a list of reports pertinent to the current selection.



Figure 47. The Print dialog.

Select a report format from the list and click **OK** to Print or Print Preview the report.

Print Dialog Settings

Clicking the **Settings** button in this dialog brings up another that allows you to customize the report by changing the *General* settings (see Figure 48).

Print Report	Settings
General	
Report Name Current Display	
Printer	
Print Title Medmont Studio	
Paper Size	
A4 (210 x 297 mm) v	Width 21.01 🜩
	Height 29.69 🔹
Orientation	Units
A OPortrait	 Centimetres
Landscape	Inches
Margins	
Left 0.64 🜩	Right 0.64 ≑
Тор 0.64 ≑	Bottom 0.64 🖨
	Cancel OK

Figure 48. Print Settings dialog.

For some reports, typically exams, additional options are available from a second tab. An M700 exam for example, would name the second tab an **Overview Print**, and selecting this tab would display the dialog in Figure 49.

Printing

D	Threshold Print Settings	×
Common Se Non-Lin Numeric	erview Print ttings ear Scaling Attributes Attributes Tick Marks Attributes Attributes i per Page 40 Overlay Opacity (%) Level V j_2 Numeric Plan j_2 Numeric Grid Plan j_2 Traditional Grayscale Section Retinal Overlay	
Default	5	
	Cancel Apply OK	

Figure 49. M700 Threshold exam Overview Print dialog.

The New button enables you to name a customized report format and retain it for future use.

Print Preview

The **File** > **Print Preview** option brings up a similar dialog to **File** > **Print**, but clicking *OK* now shows a *preview* window containing a precise version of what the report would look like on paper.

Note that what is printed for a given view is not necessarily the current display in the View pane, depending on the Print settings.

<u>.</u>				
File	Home			
Report Settings	Prin	Clipboard	One Page Four Pages Two Pages Six Pages Page: 1	Whole Page 150% 50% Width 150% 50% 100%
Setup		Print To	View	Zoom

The preview window provides the following options for working with the preview:

Report – Select the type of report to print

Settings - Change the settings for this report.

Print - Prints the report.

Clipboard - Save the preview image to the clipboard.

File - Save the preview image to a file. Supported file formats are:

- i. Windows bitmap .bmp
 - ii. Graphics-interchange-format .gif
- iii. JPEG .jpg

One Page – Show on one page of the report

Two Pages – Show two pages of the report (if applicable)

Four Pages – Show four pages of the report (if applicable)

Six Pages – Show four pages of the report (if applicable)

Page – Change the currently displayed page of the report (if one page is only shown).

Whole Page – Adjust the current view so the entire page is shown

Page Width – Adjust the current view so only the page width is shown across

200% - Zoom the current page of the report to 200%

150% - Zoom the current page of the report to 150%

100% - Zoom the current page of the report to 100%

50% - Zoom the current page of the report to 50%

17. Usage Hints

This section provides some hints for making the most of Medmont Studio.

Auto-Capitalisation

Text entry boxes in Medmont Studio use *Auto Case* by default. This means that if you type "john citizen", it will automatically be translated to "John Citizen" as you type. However, this is not what you want if you are entering a name like "McDonald", so you can change this option with a right mouse click.

For example, if you are entering a Procedure called "Cataract & IOL Surgery" into the custom Fields dialog, you will need to turn off auto-case so the "IOL" is not entered as "Iol". A right-click on the Name text box will popup a window (see Figure 50) that allows you to select from the available options. The options are:

uSer cAse	There is no automatic case control. Only the keyboard Shift key controls case.
Auto Case	The leading character of any single word will be capitalised.
UPPER CASE	All characters entered will be converted to upper case, regardless of the keyboard Shift key.
lower case	All characters entered will be converted to lower case, regardless of the keyboard Shift key.

±4	Cust	om Fie	elds	×
Туре	Procedure		Ý	
Cataract /		0		New
New (Condition,	Proce	aure	, or Ca
	Туре	Proces	dure	~
	Name			Undo
	Fore Color	D		Cut
	Back Color	D		Сору
				Paste
		Cance		Delete
		_		Select All
				uSer cAse
			~	Auto Case
				UPPER CASE
				lower case

Figure 50. Right mouse click for Case entry control.

The particularly dialog will remember the auto-case setting. Thus if you have selected **uSer cAse** to enter a new patient name like "MacDonald", the next time you enter a new patient the setting will still be **uSer cAse**.

Tabbing between Fields

When entering data in dialogs, you can navigate between data fields using the Tab key. This is often more efficient then swapping continually between using the mouse and keyboard. Tab moves the focus to the next field. Shift-Tab moves the focus to the previous field.

Default Buttons

Many displays and dialogs support *default* buttons. This is the button with a darker shadow around it, like the *OK* button shown here.

Cancel	ОК	
--------	----	--

You can activate the default button at any time by just pressing the Enter key. When combined with the use of Tab, these keys provide a very efficient mechanism for entering data.

Entering Dates

Many dialogs use the Microsoft Date control for entering dates. This control lets you enter dates in a variety of ways. Choose the one that suits your needs best:

Numeric / Arrow Key Entry

- 1. Select the date control. The day is highlighted.
- 2. Type in the day using the numeric keypad.
- 3. Press the spacebar, "/" key, "-" key, or right arrow key to move to the month. You can change the month using the up/down arrow keys.
- 4. Move to the year. You can enter either a 2- or 4-digit year. Change the year using the up/down arrow keys.

Graphic Calendar Selection

- 1. Select the down arrow next to the date control.
- 2. A small calendar is displayed.
- 3. Click on the year and use the up/down arrow keys to select the year.
- 4. Click on the month to select the month from a drop down list, or click on the left/right arrow keys.
- 5. Select the day on the displayed calendar.

Today's date can be quickly selected by clicking on "Today" at the bottom of the calendar.

18. Utilities

Medmont Studio Configuration Tool

The Configuration tool allows you to re-configure Medmont Studio without requiring a new installation. Run this tool if, for example, you have purchased a new instrument, selecting it in the Select Instruments dialog:

•	Medmont Studio 6.0.0 Configuration Tool	×
	Select the Medmont Studio components that you wish to make available. (Inclusion may be useful for review purposes, even in the absence of the physical instrument, while leaving out unused components will aid performance.) Q Automated Perimetry Q Corneal Topography Diagnostic Imaging	
	Cancel < Back Next >	

Figure 51. Configuration Tool

As another example, if it was necessary to move the Medmont Studio database to a different folder on another disk or even onto another computer, use this tool to manage the transfer. Ensure Medmont Studio is not running then move through the Configuration dialogs until the data location entry appears. Note the current location, as you will need this later.

@ M	edmont Studio 6.0.0 C	onfiguration Tool	×
	Please specify the location Database and related files.	where Medmont Studio v ramData\Medmont\Medr	
	Available disk space:	55985.76 MB	
	Required disk space:	20.00 MB	
		Cancel < Bac	k Next >

Figure 52. Moving a Database

Ensure the new data directory exists. Click on the *Location* button and navigate to the new folder. Click on OK and then move through to finish the configuration. This step will have reconfigured Medmont Studio to now use the new folder, but it has <u>not</u> moved the data. You will need to use Windows Explorer or similar to actually copy the data from the old to the new location. Remember to copy all the source sub-folders too.

RSS News Reader

Medmont Studio incorporates an RSS news reader to display up-to-date company announcements. In order for this feature to operate correctly, the computer must have a working internet connection. When connected to the internet, the software will query the Medmont internet server and alert the user to any new company announcements.

Latest News	
History	^
Medmont Studio 5.3.6 Update Released	
Corneal Topography in Specialty Contact Lens Practice	
Medmont Studio 5.3.5 Update Released	
Medmont Studio 5.3.3 Update Released	
Medmont at ODMA 2013	
Medmont Studio 5.3.2 Update Released	
Medmont Studio 5.3.1 Update Released	
2012 Holiday Closure Notice	
Medmont Studio 5.3.0 Update Released	
Windows 8 Support	
"Unexpected Error while initialising the Perimeter hardware" when conducting field tests	
Medmont Studio 5.2.2 Update Released	
Important information for Medmont Studio 5 users!	
Medmont Studio 5.2.1 Update Released	
Corneal Topography and Contact Lens Seminar	~
<	>
Medmont Studio 5.3.6 Update Released	
Posted On: Mon, 31 Mar 2014 13:14:00 GMT	
Medmont Studio 5.3.6 update released and is now available for download from our website.	~
	\sim
Refresh	•

Figure 53. RSS News Reader

To display the RSS news reader at any time, select the **Help > Latest News** menu item (located on the far right of the ribbon bar menu). From within the news reader, click the desired link to view the full article. The RSS news reader may be disabled or enabled at any time, on the **Configure** tab, by clicking **Preferences**, selecting **Startup** and adding or removing the tick next to the **Check News At Startup** option.

19. Licensing

Medmont Studio uses an online licensing scheme which limits access to only licensed software modules called components. A special alpha-numeric code called an Activation Key is required to activate components of Medmont Studio. The Activation Key is then locked to the computer and the lock is sent to Medmont via the internet, this process shall be referred to as "Authenticating your license". If the computer does not have an active internet connection a license file can be sent via email or other electronic medium. Components can be licensed indefinitely or for a set time period.

In the absence of a valid Activation Key or if your component licenses have expired, Medmont Studio will function in Single User Review Mode.

Installing a Medmont Studio license.

The first step required to license Medmont Studio is to install the software onto a computer. If the software is not yet installed please follow the installation instructions in the section titled *Installing the Software*.

All licensing tasks are performed from the License Manager. To start the licensing process, open the **License Manager** by clicking the **Configure** > **Studio** > **License** button as per Figure 54.



Figure 54. Opening the License Manager

The License Manager window should now be displayed. An example of the License Manager window is displayed in Figure 55.

<u> </u>	Medmont Studio Licence Manager	×
License Status	No license installed	Install
Maximum sessions	0 Sessions	Update
Serial #		
Installed Licences		
		Close

Figure 55. License Manger Window with no license installed.

Click on the Install button. The Install License window should now be displayed as per Figure 56.

Install Medmont Studio 6 License		
To install a new license, enter the license key you received on purchasing the product and click the Install buton. The Save and Load License buttons can be used to asveirestore the installed license to a file for backup.		
License Key	Install	
License Status No License Installed		
Computer ID TESTPC		
Load License Uninstall License	Close	

Figure 56. Install License window

Installing a license on a computer with internet access.

If your computer has a working internet connection enter the Activation Key which was provided with your instrument into the field marked **License Key** as per Figure 57 and click the **Install** button.

Licensing

🖌 Install Medmont Studio 6 Lice	nse	
To install a new license, enter the license key you received on purchasing the product and click the Install button. The Save and Load License buttons can be used to save/restore the installed license to a file for backup.		
License Key D906-D111-DF25-957C-52C6-E94E-0D53-4680	Install	
License Status No License Installed		
Computer ID TESTPC		
Load License Save License Uninstall License	Close	

Figure 57. Install License window with Activation Key

The Install License window should now contain the phrase "License Installed" in the **License Status** field as per Figure 58. If any other message appears in this field please contact your local Medmont support agent for support.

Vinstall Medmont Studio 6 License	
To install a new license, enter the license key you received on purchasing the product and click the The Save and Load License buttons can be used to save/restore the installed license to a file for ba-	e Install button. ckup.
License Key	Install
License Status License Installed	
Computer ID TESTPC	
Load License Save License Uninstall License	Close

Figure 58. Install License window with valid license installed.

The license process is now complete click **Close** to display a list of active components. Verify you have been assigned the correct licenses. If you believe an error has been made with your license please feel free to contact the agent who supplied you with the instrument for support.

Installing a license on a computer without internet access

If your computer does not have a working internet connection enter the Activation Key which was provided with your instrument into the field marked **License Key** as per Figure 57 and click the **Install** button.

Install Medmont Studio 6 License	×	
To install a new license, enter the license key you received on purchasing the product and click the Install button. The Save and Load License buttons can be used to save/restore the installed license to a file for backup.		
License Key 0906-0111-0F25-957C-52C6-E94E-0053-4680	Install	
License Status No License Installed]	
Computer ID TESTPC]	
Load License Uninstall License	Close	

Figure 59. Install License window with Activation Key installed.

After a brief pause the message in Figure 60 will be displayed.

	Authentication Error	×
4	Unable to connect to the License Authentication Server via the internet to authenticate your license on this computer. Do you want to save your license file and authenticate it offline? Click "No" to fix your internet or firewall settings and then click the "Install" button to try again. Click "Yes" to save your license to a file to authenticate offline. Visit http://www.medmont.com/authenticate/AuthenticateFile.aspx to authenticate the license file yourself or send it to us and we will authenticate it for you. Then use the "Load License" button to install the authenticated license file.	
	Yes No	

Figure 60. Warning message displayed if no internet connection is available.

Click **No** if you would like to repair your internet connection and try again. Click **Yes** if you would like to save the license to a file. By choosing to save to a file you then have the option of either emailing the file to Medmont or transferring it to a computer with a working internet connection and authenticating it via a web browser.

Authenticating via a web browser

If you would prefer to authenticate your license right away then you can authenticate your license file via a web page available online. Transfer your license file onto a computer with a working internet connection. A USB flash drive is ideal for this task.

From the online computer open a web browser and enter the following web address into the address bar. We recommend using Internet Explorer 9 or higher.

http://www.medmont.com/authenticate/AuthenticateFile.aspx

The following web page in Figure 61 should now be displayed.



Figure 61. Authentication web page.

Click on the **Browse** button and select the License file saved earlier. Click the **Authenticate** button. Continue to save the authenticated license file to the local computer as per Figure 62.



Figure 62. Authenticated license file save prompt.

Click Save to write the file on the local hard drive as per Figure 63.

Authenticate License File	
This web page allows you to authenticate a license file if the licensed is offline or cannot connect to the authentication ser file to authenticate, then click the "Authenticate" button to dc authenticated license file. Use your browser's save function to authenticated license file. Copy the authenticated license to the authenticated license file.	vice. Select the license winload the o save the
and use the "Load License" button to install it.	ie original computer
	Browse

Figure 63. Authentication file download complete.

Click the **Open folder** button to locate the authenticated license file called *AuthenticatedLicense.lic*. Transfer the authenticated license file back to the original computer. From the Install License window press the **Load License** button as per Figure 64

6	Install Medmont Studio 6 License	~
To install a new license The Save and Load Lice	To install a new license, enter the license key you received on purchasing the product and click the In The Save and Load License buttons can be used to save/restore the installed license to a file for back.	
License Key	D906-D111-DF25-957C-52C6-E94E-0D53-4680	Install
License Status	No License Installed	
Computer ID	TESTPC	
Load License Sav	e License Uninstall License	Close

Figure 64. Install License window showing location of Load License button.

The Load License file window should now be displayed. Navigate to the *AuthenticatedLicense.lic* file and click **Open**. The license should now be installed. The text *License Installed* should be displayed in the License Status field as per Figure 65.

<i>s</i>	Install Medmont Studio 6 License	×
To install a new licens The Save and Load Lic	e, enter the license key you received on purchasing the product and click the ense buttons can be used to save/restore the installed license to a file for ba	Install button. ckup.
License Key	D906-D111-DF25-957C-52C6-E94E-0D53-4680	Install
License Status	License Installed	
Computer ID	TESTPC	
Load License Sa	ve License Uninstall License	Close

Figure 65. Install License Window with license installed successfully.

Click **Close**. The Medmont Studio License Manager should now display a list of components activated by your license as per Figure 66.

•	Medmont Studio Licence Manager	×
License Status	License Installed	Install
Maximum sessions	5 Sessions	Update
Serial #	1	
Installed Licences	IESOD M700 DV2000 PMI DICOM Peridata	
		Close

Figure 66. License Manager Window will list of active components.

Authenticating via email.

If you would prefer to have Medmont handle the authentication of your license then you will need to email the license file to your local Medmont representative.

You can close the License Manager while you wait for a response from your local distributor. After receiving a reply email, transfer the attached *AuthenticatedLicense.lic* file back to the computer where Medmont Studio will be installed.



There could be up to 3-4 business days before a response is received. If you do not receive an email response within this timeframe please check your Junk or Spam email box to see if the return email has been marked as junk. If it cannot be found here then contact your local authorized Medmont distributor for help.

Next you will need to import the authenticated license back into License Manager. Open License Manager by clicking **Configure** > **Studio** > **License** from the main menu. When the License Manager window appears click on the **Install** button which will display the license entry window. Press the **Load License** button as per Figure 67

	Install Medmont Studio 6 License		
To install a new license, enter the license key you received on purchasing the product and click the Install button. The Save and Load License buttons can be used to save/restore the installed license to a file for backup.			
License Key		Install	
License Status	No License Installed		
Computer ID	TESTPC		
Load License Sav	re License Uninstall License	Close	

Figure 67. License Entry Window with Load License button highlighted.

You will now be prompted for the authenticated license file which was attached to the email response from Medmont. Specify the location of this file and click **Open**.

The authenticated license should now be installed. The License Manager Window will now display a list of components which have been activated by your license as per Figure 68.

1	Medmont Studio Licence Manager	×
License Status Maximum sessions Serial #		Install Update
Installed Licences	E300 M700 DV2000 PMI DICOM Peridata	
		Close

Figure 68. License Manager Window with list of installed components highlighted.

Updating an existing License

If you have already licensed your software and you decide to purchase additional components you can easily update your license. The update license process requires a working internet connection. If you do not have a working internet connection you will need to re-license your software using your original Activation Key as per the section *Installing a Medmont Studio license*. To update your license open the License Manager window by clicking on the **Configure** > **Studio** > **License** button on the main ribbon bar. Once open you can press the **Update** button to update the license as shown in Figure 69.

	Medmont Studio Licence Manager	×
License Status	License Installed	Install
Maximum sessions	5 Sessions	Update
Serial #	4Snip	
Installed Licences	ESOD M700 DV2000 PMI Peridata	
		Close

Figure 69. License Manager with highlighted update license button.

After a short delay and provided the update process completes without error the following message shall be displayed.



If any other message is displayed please check your internet connection and try again otherwise contact your local authorised distributor for support.

Frequently Asked Questions (FAQ).

How do I transfer my license to another computer?

If you need to transfer your license from one computer to another and the computer where the license is currently installed has an internet connection then you can simply uninstall the software using the *Programs and Features* applet in Control Panel. During the uninstallation you will be asked to deactivate the license, choose yes. This will release the lock on the license so that it can be re-installed on another computer. If the licensed computer does not have an internet connection then you will need to contact your local authorized distributor to release the lock for you.

What should I do if I cannot find my Activation Key?

If you cannot find your original Activation Key then Medmont can provide you with your key for a small administrative fee.

What's the best way to contact Medmont for license related questions?

Medmont uses a global network of distributors to handle local support issues like licensing. Please contact your local authorized Medmont distributor. In most cases this will be the company that sold you the instrument originally but since distributors do change from time to time you can find the contact details of your local distributor from the following web page http://www.medmont.com/contact

I already own a fabulous E300 Corneal Topographer from Medmont and I want to buy their equally amazing M700 Automated Perimeter. Can I get a license which combines both instruments?

At the time of purchasing your instrument a sales representative should ask you if you already own any other Medmont instruments. If you do then we can update your license to include the new instrument. Once Medmont has updated your license and provided you have a working internet connection on the computer with the installed license you can update your license using the **Update** license function in License Manager. To update a license on a computer without a working internet connection please follow the step in section *Installing a license on a computer without internet access*.

The laptop I use with a licensed version of Medmont Studio was stolen. Can I get a replacement license?

Yes. Please contact a Medmont authorized distributor who will remove the lock on your license so it can be re-used on another computer.

Session Licenses

Sessions are important for network configurations. In these, each active Medmont Studio application running on a **client** computer needs the **server** computer to supply it with a *session*. The maximum number of sessions allowed is controlled by the license and is encoded in the activation key.

This means that licenses can float between computers. The server will assign up to the maximum number of sessions to client machines, so there may be more client computers than sessions as long as at any one time there are only the given number of clients actively using Medmont Studio.

In normal use each time the Medmont Studio software is started on a client computer, the server assigns a license to that client. When the application exits the license is returned to the server pool and becomes available for another client.

Once a license has been assigned to a client that client gains all functionality available under the license.

For example, a local-area network with ten computers attached could run Medmont Studio on all of the computers at different times, but if the maximum number of sessions is five, then no more than five computers can run Medmont Studio simultaneously. A sixth user trying to start Medmont Studio will get a **Not Enough Sessions** error message.

If this happens, the user could ask another user to exit, thereby freeing up a license. If this happens often, you may wish to purchase licensing for additional sessions from Medmont.

Extraordinary conditions that could result in the client software ceasing to operate include an administrator logging off a user or the server software shutting down.

20. Data Backup

It is in your own interests to regularly perform backups to avoid loss of data due to hardware failure or accidental deletion or corruption of the database.

If you have been using a 3^{rd} party Practice Management system, it will have its own database files, and it is likely you will have already established a regular backup procedure. If so, then simply add the Medmont database location (see *Backup Locations* on page 55) to the list of folders you are already backing up.

However, if you are just at the planning stage of a backup policy, Medmont suggests that all the various practice databases be regularly backed up to media that can be taken off-site. This could be a laptop computer that is plugged into the practice network, a CD-ROM or DVD, or a USB disk.

Medmont recommend that you periodically backup to media your can store.

Backup Media

The choice of backup media will depend somewhat on the size of your practice, the instruments you are using, and the number and type of exams your practice does in a given period. But no matter how small your practice, the days of using floppy disks for backup are long gone. A medium sized practice that includes imagery as a service can easily require several gigabytes of backup storage.

Backing up to a laptop is convenient in that you can just connect it to the practice network, navigate to the various Medmont and Practice Management data folders, and use Windows Explorer to copy the files. The feasibility of this method depends on first having a laptop with a large enough disk, having plug-in access to the network, and your confidence in the long-term reliability of the laptop.

USB disks in early 2007 come in sizes up to 4 gigabytes, and this would be adequate for most practices. The amount of storage available on these devices will only get bigger, so with the same caveat about long-term reliability, this could be a satisfactory backup solution.

Backup to a CD-ROM burner is a more reliable option, in that the CD is essentially a permanent system snapshot. However, if you are using instruments that produce imagery such as the Medmont E300, it will not be long before your overall database size exceeds the around 700 megabytes available on a single CD. In comparison, the hardware costs and procedures to backup to a DVD burner are now no different to a CD-ROM, with the advantage of nearly seven times the backup space.

With all this in mind, Medmont recommend using a DVD burner as your backup medium, either mounted in the server computer or capable of being plugged into its USB2 port.

The next decision is the backup software. Unlike Windows 2000, Windows XP and subsequent versions like Vista provide for direct transfer from the various database storage locations to a DVD using Explorer. However this means manually navigating to the various directories to backup each individual database for the products your practice uses. Windows provides a backup program appropriately called Backup on the Windows distribution CD, and if installed it is available from **Start > Programs > Accessories > System Tools**. This has facilities that allow you to pre-program the integration of selected files and folders from a number of locations into a single backup file, along with how it should be stored and to where (an adequate solution if you are backing up to another computer or a laptop). However the program knows nothing about CD-ROMs or DVDs.

The requirement is therefore for backup software that offers facilities to pre-specify the locations and folders that require backup (i.e. it will remember the various locations between backup sessions), and the ability to copy to a CD-ROM or DVD burner. In addition, it should have the ability to span the backup file across multiple disks for when the size of the backup exceeds the media capabilities.

Medmont recommended you survey the market yourself for backup software that meets these requirements.

Backup Locations

The Medmont Studio 6 database is by default stored in an all users accessible data folder called **Data**. In a default installation this will be:

%allusersprofile%\Medmont\Medmont Studio 6\Data.

On Windows 7 this path resolves to:

C:\ProgramData\Medmont\Medmont Studio 6\Data

Do not confuse this **Data** directory with the data directory belonging to an earlier Version 3 Medmont Studio that was usually located at C:\Program Files\Medmont\Data.

At installation this folder can be assigned to any computer in the practice network, to any disk on that computer, and to any folder path on that disk. However, clicking on **Start > Medmont > Medmont Studio Administrator Tool** will display the dialog in Figure 70, and this will list the database location in the **Data Location** field.

<u>@</u>	Medmont Administrator Tool		×
Data management Passwords			
Warning	Before you proceed 1. Make sure you are logged in as Ad 2. Close Medmont Studio software 3. Back up your data	ministrator	
Installation Data Location Data Size	Standalone C:\ProgramData\Medmont\Medmont Studio 6\Data 45.5 MB Compact And Repair		
Close			

Figure 70. System Administrator Tool.

Initiating a Backup

No matter what Medmont configuration you have installed, all copies of Medmont Studio must be stopped before initiating a backup. For a stand-alone system this is easy, but for a server system you will need to stop the Medmont server using the Server Manager.

Data Backup



Figure 71. Medmont Studio Server Manager.

The Server Manager icon **W** will be present in the desktop tray of the network server computer. Double click on this icon to display the Studio Server Manager dialog shown in Figure 71. The **Active Sessions** entry will show if any clients are running Medmont Studio. Click the **Refresh** button if the Manager has been running. You can choose from two options.

- 1. Find the machine(s) currently running Medmont Studio to ensure no one is using it, shut it down, and then come back and click the *Stop Medmont Studio Server* button, or
- 2. Click the *Stop Medmont Studio Server* button.

The effect of clicking this button on connected clients is to disconnect them from the server with no mechanism to reconnect other than re-starting, so the second option has the potential for data loss if the computer is currently in use. Avoiding this situation is a company procedures issue, where either a certain time is set-aside for backup or it happens after hours.

The more usual effect of stopping the server is, of course, to prevent clients starting Medmont Studio. If they try they will see the message shown in Figure 72 and Studio will refuse to start.



Figure 72. Error message for when no server is available.

Once the server is stopped you can proceed with your backup procedure. If necessary, click the *Compact and Repair* button on the Administrator tool (see Figure 70) for occasional database management.