MicroScan Version 5
Getting Started

Intech INSTRUMENTS LTD

IMPORTANT! READ FIRST!

Technical details on MicroScan V5 Operation:
MicroScan is a desktop application designed to run as a single user application in a single user account logged on 24x7.
It is not a service.

MicroScan V5 runs on:
Windows XP
Windows 7 (not all PLC interfaces compatible)
Windows Vista (Recommend 7 instead)
Windows 2000 (Microsoft have now ended support)

Note: Only use **32 bit** Windows.

Hardware requirements are as required for Windows.
Must be clean installs and not upgrades from a previous version of Windows.

MicroScan will NOT run on:
Any version of Windows running in a Virtual Desktop (as USB devices are not supported).
Windows XP Mode running on Windows 7 Virtual PC.
Thin Clients (Remote Desktop Connection / Terminal Server).
Windows XP running as a single computer using Switch User.
Windows 95, 98, ME, NT 4.0, 3.1.

Installation Details:

- Up to 100 MB of hard disk space is required for the install, with extra space for store files and log files.
- At least 1 Serial Port as required for communications.
- 1 USB port for dongle locking of software.
- Ethernet port for connection to Network and Internet (if required).
- CD ROM drive (software is supplied on CD, or downloaded via the internet).
- Screen Size 1024x768 VGA or higher (800x600 VGA minimum). The software is not designed for operation on 640x480 VGA.
- Please note that the typical life expectancy for PC's working 24x7 is 3 to 5 years.

MicroScan Auto start:
If MicroScan needs to be setup as "auto start", use the following settings:

- XP: setup as "Power User"
- 7 and Vista:
    - When setting MicroScan to "auto start", setup as "Administrator"
    - When "auto start" is not required, setup as "Standard User"

Contents

1.   Introduction

MicroScan Version 5 is a data logging recording and Control and alarm system with advanced features. The system has been designed with an emphasis on monitoring and provides this with a minimum of configuration effort.

For anyone familiar with MicroScan version 4 many features have been enhanced and set up procedures simplified. This manual has been laid out in a sequence that will take an installer through the various stages of setting up a system, to running and registering it. An operator should refer to Section 5.

It is recommended that anyone considering setting up a MicroScan version 5 system be familiar with Communications hardware and the Operating system of the computer they are about to use.

If upgrading from a previous version of MicroScan to version 5, special care should be taken to ensure all previous features are supported in version 5. During the install process, you will be asked to accept the License Agreement. By clicking on the "Yes" button, you confirm that you have read the License Agreement included with your MicroScan software package and that you agree to be bound by its' terms.

2.   Loading the system on to your PC

The MicroScan Version 5 system is supplied on a CD or via the Internet.

2.1.1   CD version
 If you have received a CD simply place the CD into your computer then wait for the CD to load. When the CD has loaded click on the 'MicroScan V5' link, and then follow the sequence shown on the following pages.

2.1.2   Internet version
If you have downloaded the system from the Internet you will be aware of the file that has been stored on your computer. To load MicroScan Version 5 from this file simply find the directory the file is stored in and double click on the file. The file is self-executing and will open the first screen shown below. Carry out the instructions on the first screen and follow the sequence as shown on the following pages.

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→ Software Install
→ MicroScan Manuals
→ Help Center
→ Intech Sales Brochures

Home > Downloads > Software Installation > MicroScan V5 Installation Software

MicroScan V5 Installation Software Area:

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  - When "auto start" is not required, setup as "Standard User"

Network Mode:
The Active and Passive can support loss of Server shared drive, will notify of error and attempt auto reconnect at set intervals.
Shared MicroScan's are supported via networking mode, sharing data on a file server, each user has their own copy of MicroScan installed on a PC setup to look at the shared files. Networking is done via shared files only, not TCP/IP connections.

To Begin Click Here.

Download Now MicroScan Software Version 5.0 - 46.0MB - Sep 22, 2010 - (Bld 2633i)
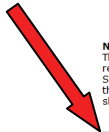
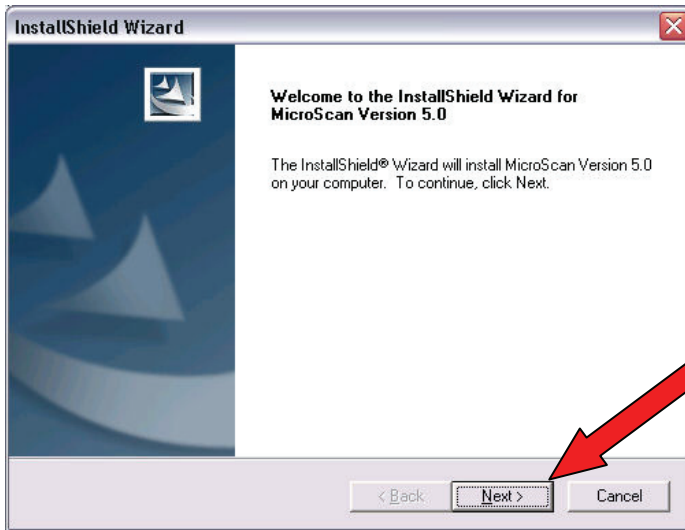After clicking on the above link the following box may appear.

Choose the option you consider best to continue.

Important!
Do **NOT** attach a super pro dongle during installation or damage to the dongle may result!
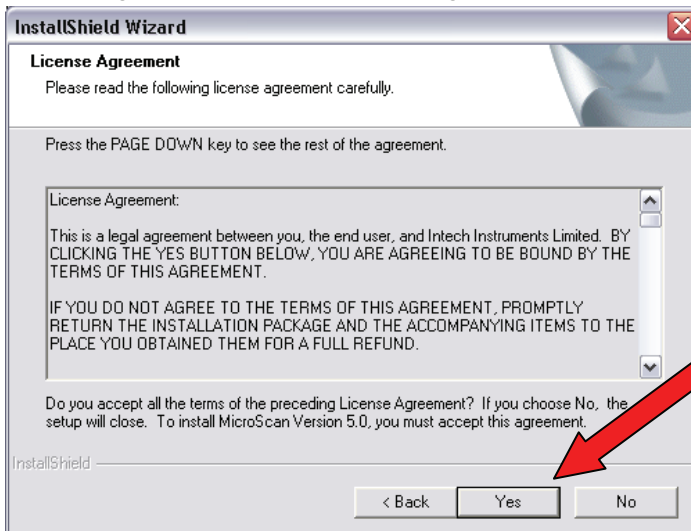

Please Note: Installing MicroScan V5 on Windows 7/Vista® may require an Administrator password etc. Please contact your IT support for assistance.

This box begins the installation.
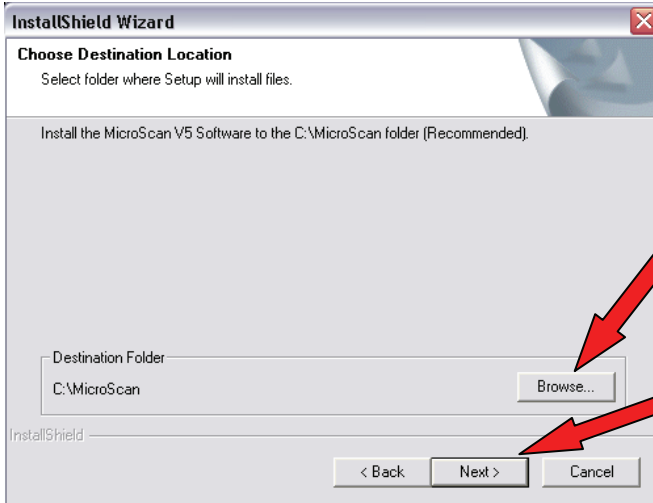
Choose next if you wish to continue.

The following box presents the license agreement for use of the software.

If you agree with the terms of the License click "Yes" If you do not agree click "No". Clicking "No" will exit the installation process.
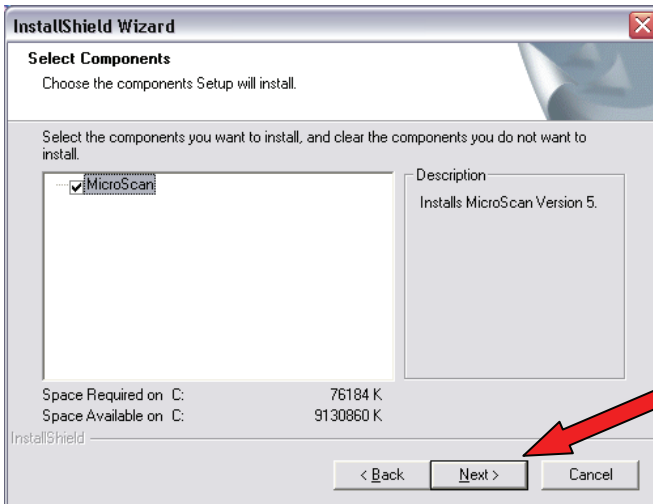
If you agree with the terms of the License and click "Yes", you confirm that you have read the License Agreement included with your MicroScan software package and that you agree to be bound by its terms.

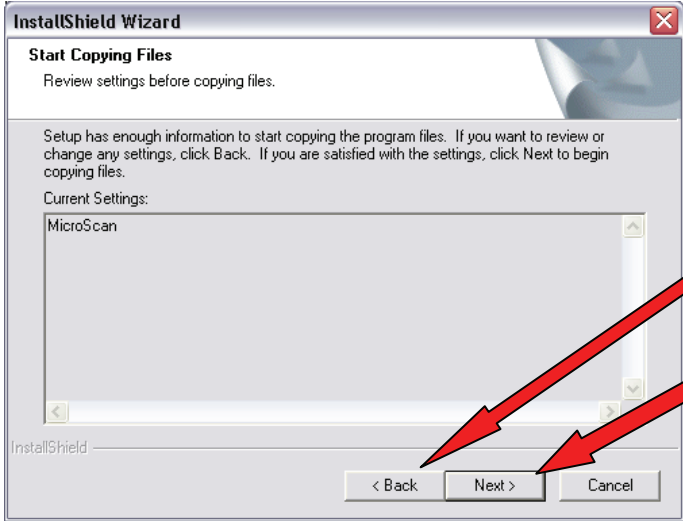The next box allows you to choose where the software is to be installed.

InstallShield Wizard

Choose Destination Location
Select folder where Setup will install files.

Install the MicroScan V5 Software to the C:\MicroScan folder (Recommended).

Either choose a new location with the "Browse" button or accept the recommended default and choose "Next".

Destination Folder
C:\MicroScan   Browse...

InstallShield

< Back   Next >   Cancel

This box allows you to choose the components of the system that you want to install. The disk space required by your choice is shown at the bottom of the box. If you do not understand this option the default values will allow MicroScan version 5 to be installed.

InstallShield Wizard

Select Components
Choose the components Setup will install.

Select the components you want to install, and clear the components you do not want to install.

☑ MicroScan

Description
Installs MicroScan Version 5.

Click "Next after making your choices or leaving the default options.

Space Required on C: 76184 K
Space Available on C: 9130860 K

InstallShield

< Back   Next >   Cancel

This next box gives you the option to revise any of your settings before installation.
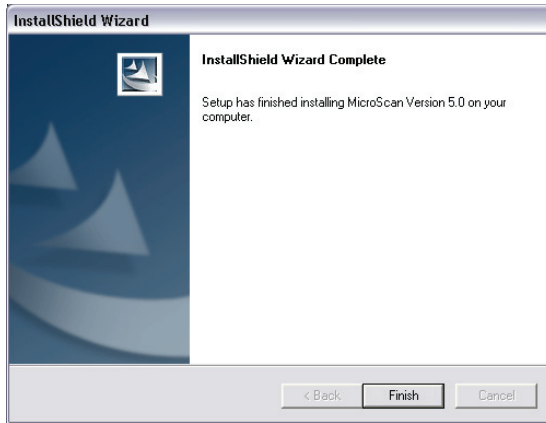

If you need to change anything you have set click "Back" If not click "Next".

A box with a progress bar graph appears during installation.
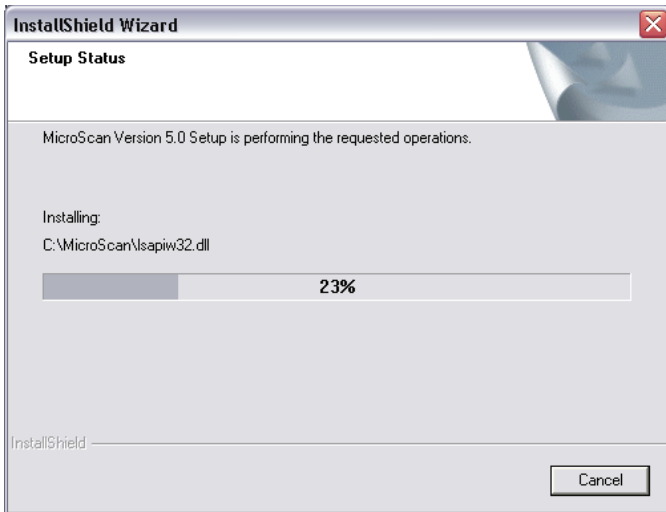
Additional boxes will also appear automatically as part of the installation process.

The last box tells you that MicroScan Version 5 and the registration system has been installed. Click "Finish" to finish.

Congratulations! Installation is now complete.

Important!
If your installation includes a super pro dongle, please attach it now.

If you are using an installation CD please leave the CD in the drive - MicroScan V5 will automatically detect the required license file when first run.

3. Preparing your MicroScan Version 5 system for setup

Before setting up your application on MicroScan Version 5 there are a number of items to be worked through. The following section will lead you through initial preparation.

To begin you will find the following icon on the computer desktop.
- Double click "MicroScan V5 Start" to begin.
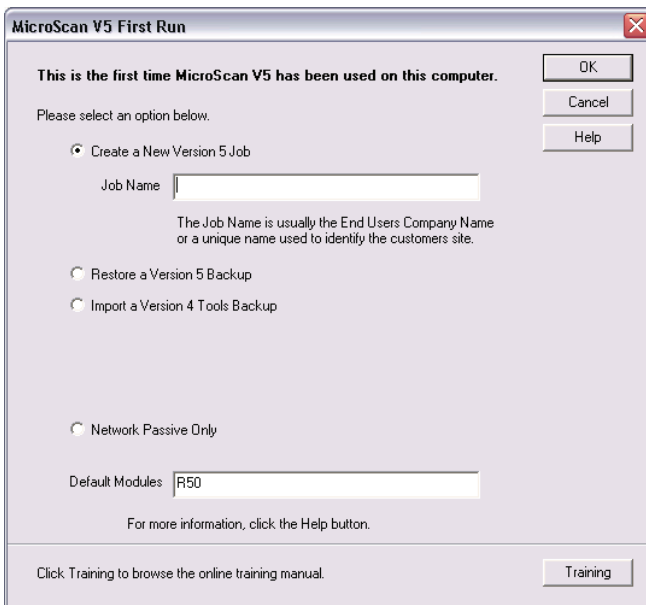
The following box is the first for the installation. There are <u>four</u> options
1. Use the first option if the installation is new and there are no existing configurations.
2. Use the second option if there is an existing configuration.
3. Use the third option if there is a backup copy of an existing version 4 installation.
4. Use the fourth option if this installation is Network Passive Only.

If you are choosing the first option as the starting mode type in a name for the job in the "Job Name" box.

3.1   Creating a new job
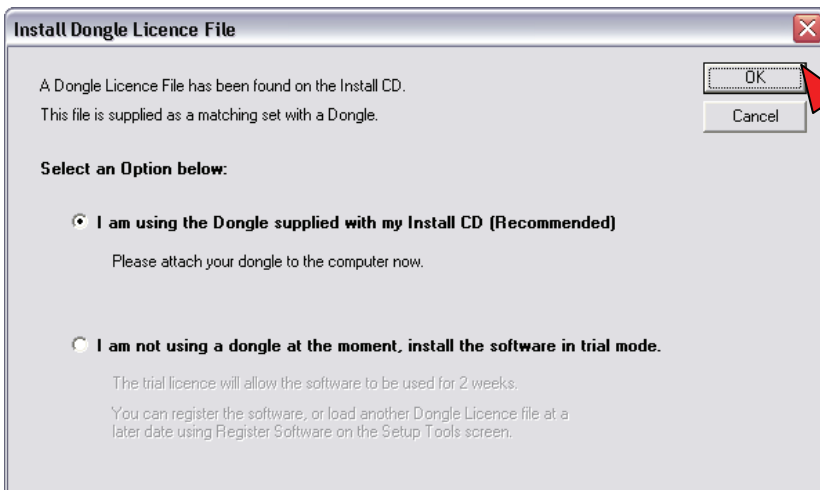
If you choose to create a new job and do not type in a job name the following box will appear. Click "OK" to return and enter a Job Name.

> **MicroScan V5 First Run**
>
> (i) A Job Name has not been entered.
>
> Please enter a name to use to identify this Job.
>
> [OK]

Once you have typed in a job name the following box will appear.

If you are satisfied with the job name click yes, if not click no.

> **MicroScan V5 First Run**
>
> (?) Confirm Job Name "Manual Demonstration".
>
> Click Yes to continue, or No to enter another name.
>
> [Yes]   [No]
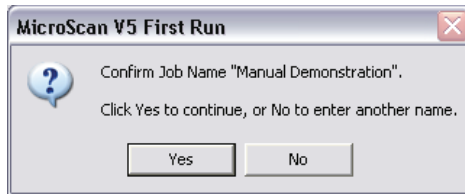
If your MicroScan V5 software was installed from an Install CD then the program will automatically attempt to find the license file. Please leave the Install CD in the drive for this step. If this is successful then you do not need to refer to the registration section of this booklet. This step will only work with packages that are supplied with a SuperPro dongle.

> **Install Dongle Licence File**
>
> A Dongle Licence File has been found on the Install CD.
> This file is supplied as a matching set with a Dongle.
>
> [OK]
> [Cancel]
>
> **Select an Option below:**
>
> (•) **I am using the Dongle supplied with my Install CD (Recommended)**
>
> Please attach your dongle to the computer now.
>
> ( ) **I am not using a dongle at the moment, install the software in trial mode.**
>
> The trial licence will allow the software to be used for 2 weeks.
>
> You can register the software, or load another Dongle Licence file at a later date using Register Software on the Setup Tools screen.

Attach your dongle and click OK.

If no dongle is found then MicroScan will inform you that you are operating with a trial license as shown below:
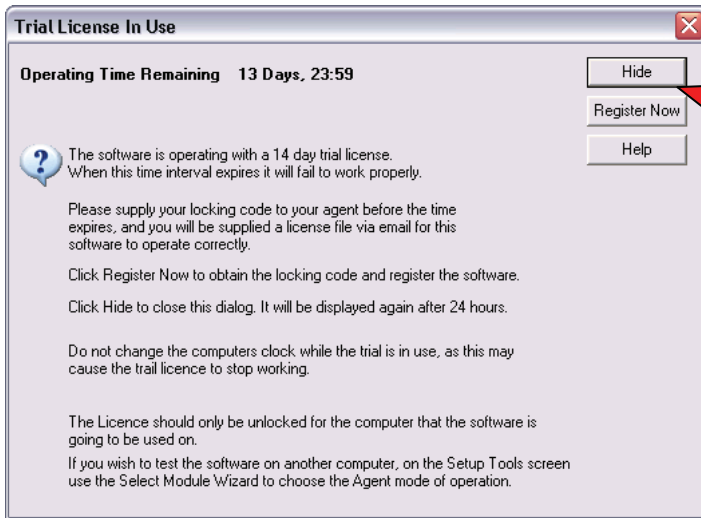
Click "Hide" to continue or "Register Now" to start the registration process.

(See section 6 'Registration')

4. Setting up MicroScan Version 5

If you have just completed the installation the following step will be next on the screen. If you have completed installation and had to break the process, to continue, you will need to start Version 5. To do this either double click on the following icon on the desktop or choose V5 start from the entry under MicroScan V5 Software on the programs list.

Whichever means you have chosen to enter the configuration of MicroScan V5 the following screen appears. This is the home page for configuration.

The Set up screen may first open with a reminder notice for registration. The registration process may be taken at this stage providing that all the system requirements are known. If there is any doubt about what is required, it is recommended that registration be carried out after Set up.
Details of the registration procedure are covered later.
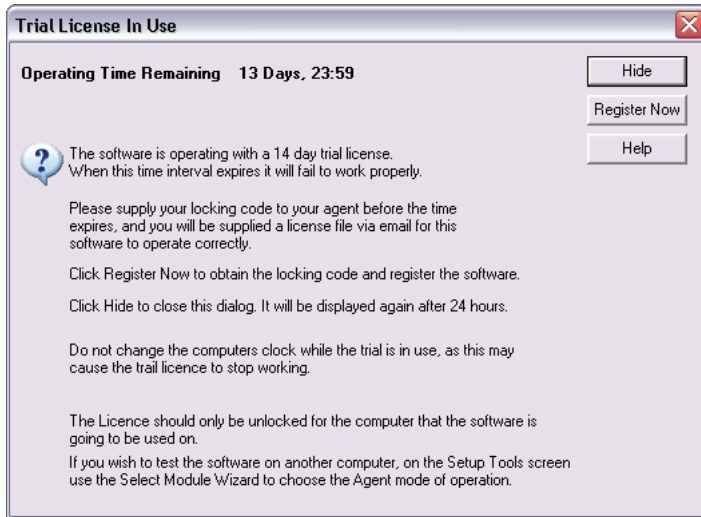
Once the registration issue is decided Set up can begin.
Unless you are experienced with the package the sequence of set up should be:

1. Check and configure the manually configurable communications settings on field devices. (Refer to the manuals provided with each piece of equipment).
2. Connect the communications system to the computer.
3. Run the "setup" option from the version 5 menu.
4. Follow the setup procedure described under "Run the setup option..." later in this manual.

4.1   The Help file

At this stage it is appropriate to introduce you to the online help file.
If you are confused about any of the descriptions in this manual or need more information, there is an extensive help menu.
At any stage just click the help text on the menu bar as shown below.

Click here for help

Easy access directly to specific help topics.
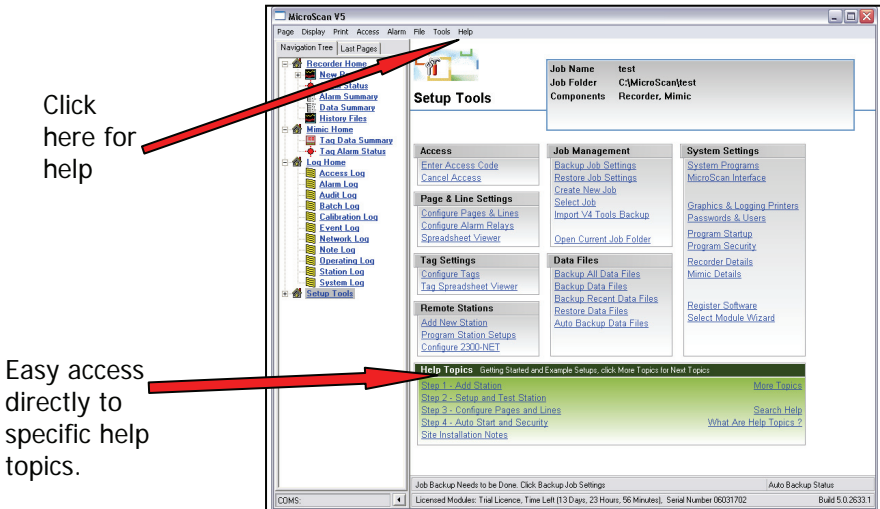
Many of the windows that appear in MicroScan V5 also have a 'Help' button you can click to go directly to the Help page on that area.
When you click the help option the following screen will open. Click on the item you need help with and a description will appear.
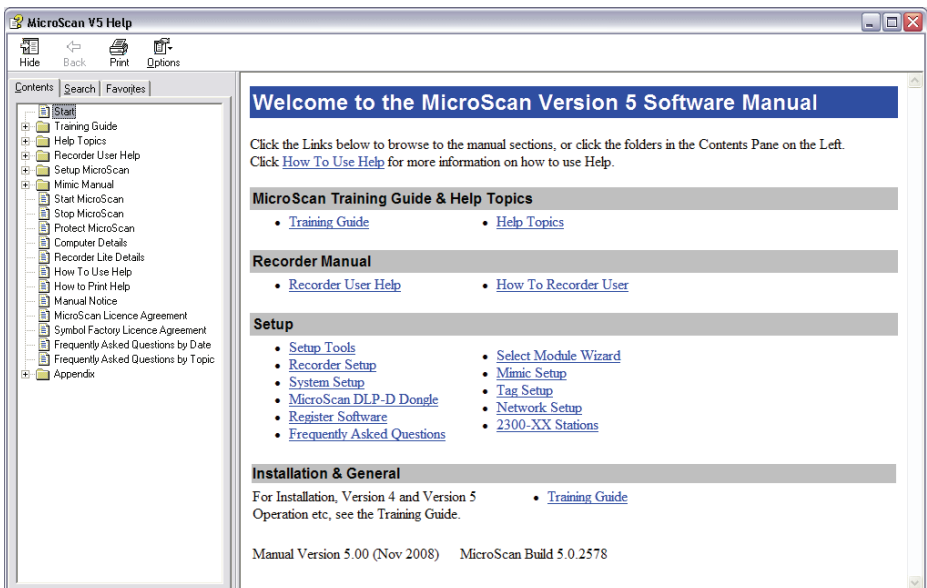
4.2   Configuration steps

We will now proceed through the stages needed to get your MicroScan version 5 system working.

4.2.1 Check and configure manually configurable communications settings on field devices.

The MicroScan system uses a system of polling where each field station is allocated a station number, which is used to direct communications to that station.

It is very important that each station has a number that is not used by any other. Damage to the communications hardware can occur if 2 or more stations have the same number.

Apart from the station number, each station needs to be programmed with the correct Baud rate and data configuration. Some devices have other communication settings and it may be necessary to refer to the device manual. Once station communication settings have been configured, the system is ready to be connected to the computer.

4.2.2 Connect the communications system to the computer.

By this stage field wiring should be completed. There are several means of connecting to the computer. The most common is by RS232 connection although Ethernet is now a possibility. Check the communications wiring for compliance with the appropriate manual before connecting to the computer.

4.2.3 Run the "setup" option from the version 5 menu.

The set up screen allows configuration of the system whether you are starting from new or importing configuration from a preconfigured system. The next section will lead you through a procedure to configure a new system.

4.3   Creating a new system

The setup procedure numbers on the picture of the set up screen below show the order you need to progress through the set up.
1.   Configures the communications port or ports.
2.   Allows you to select a name for your new configuration then takes you to the "Select module wizard" to set up the operating mode, system size and the types of interfaces required.
3.   Configures the software for the hardware modules connected to the system
4.   Configures the software programmable features on each hardware module.

The following steps are alternatives, choose the appropriate one

5a. The next configuration step is if the system is only to include the recording features of the package.

"Configure Pages and lines" sets up the Graphs and lines of the recorder. This is the first stage of configuration.

"Configure Alarm relays" is used if any of the graph lines need to trigger an alarm.

"Spread sheet viewer" allows viewing and printing of the Recorder configuration.

5b. The next configuration step is if the system is using mimic facilities or is using a PLC interface.

"Configure Tags" sets up a reference for each input or output to be used in the system.

"Tag Spread sheet viewer" allows viewing and printing of the tag parameters.
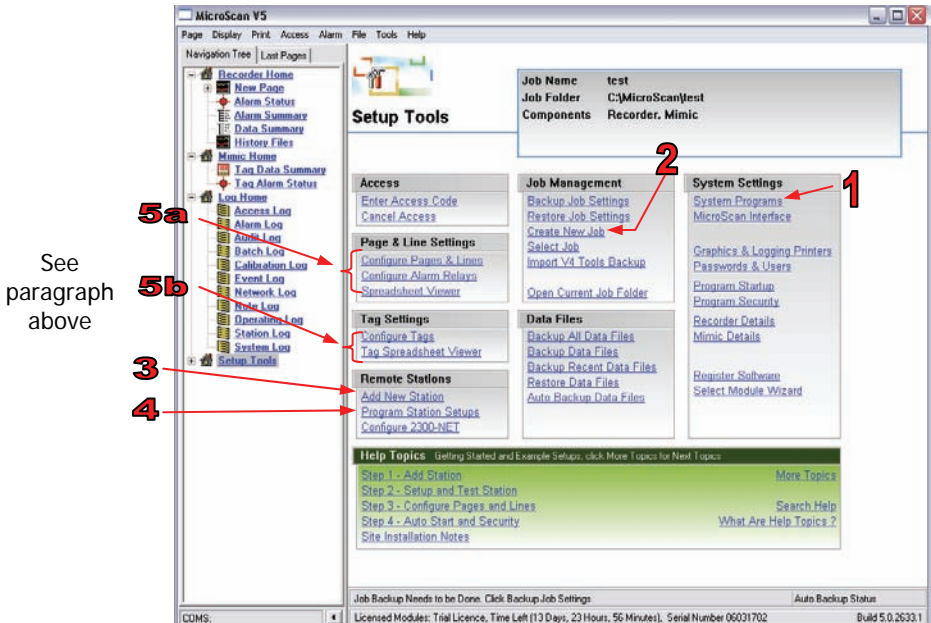
4.4   Pre configured system

If you are upgrading from a version 4 system or have a previously prepared configuration, there are features to handle this.

4.4.1 Using a Version 4 configuration

There are two ways that version 4 configurations can be brought across to Version 5; either from a saved backup of the configuration or directly from the IN2000 directory on the computer that is already running version 4. To use the latter method Version 5 needs direct access to the IN2000 directory (This must be from a working installation of MicroScan V4, and not simply a copy of the IN2000 folder from a MicroScan v4 computer), this will happen automatically when MicroScan V5 is run for the first time.

See "A" on the diagram below to restore from a Version 4 Backup.

4.4.2 Using a Version 5 configuration

A version 5 configuration can be applied if a Version 5 backup exists in a folder accessible by the computer. See the "B" marker on the diagram below to use this option.
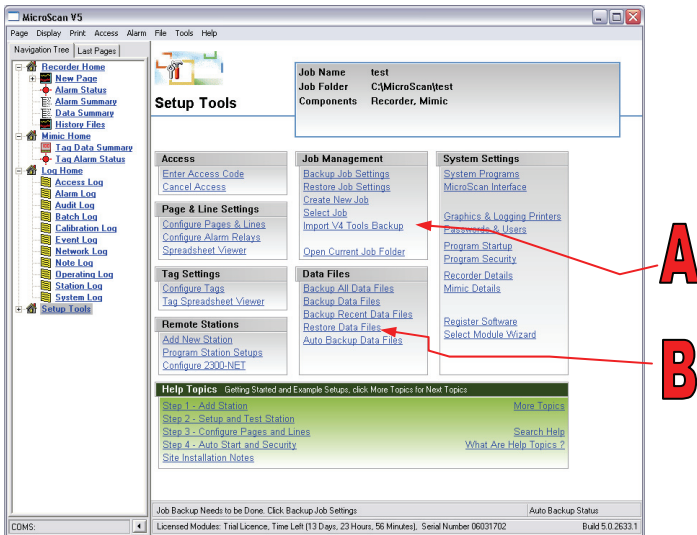

4.5 Preparing to run MicroScan Version 5

There are a number of items that need to be checked and configured before the newly configured MicroScan V5 is ready to run. Below is another screen picture. It is recommended that you work through the items in the order that they are numbered. If an item does not appear in your version carry on with the next item.
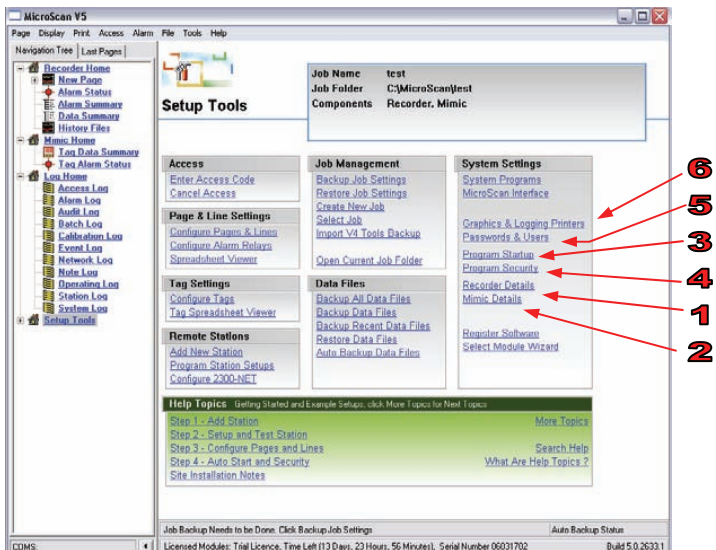
4.6   Backing up your new configuration

Once you have configured your new system it is important to backup your configuration in case of computer failure. The backup should be saved both on the local hard drive and to another device such as a writeable CD in case of hard drive failure. To back up your configuration choose "Back up job settings", shown on the screen below.

Click here for Backup
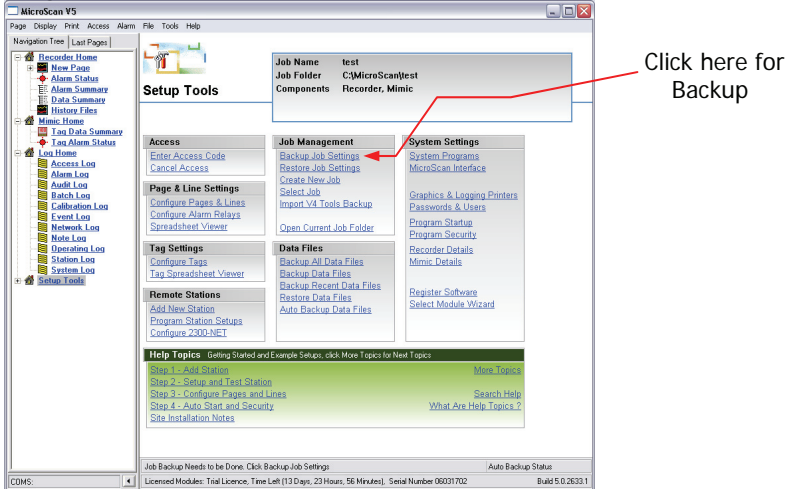
When all the preceding steps have been completed the system is ready to run.

Navigation tree Tab

1st Recorder page name
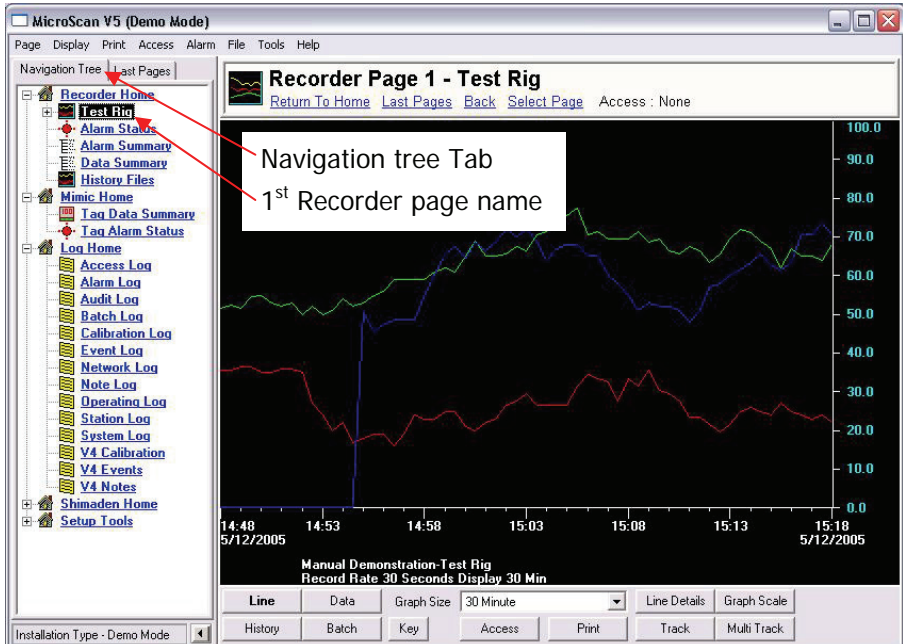
5   Running Version 5

If you are not already there click on the Navigation Tree tab. This will bring up the list of recorder pages that you have configured and allow you access to operating mode items.

We will begin with the Recorder support, and we will describe the mimic support functions later.

If you click on the recorder page name the graph of that page will appear. Clicking on any other recorder page name will bring up the graph of that page also. If you double click on any recorder page name the line identities will also appear with the colours of each line.

5.1   Recorder graph Features

There are many facilities available on the graph screen. The following page shows the screen with numbers applied. A brief description of each numbered item follows the screen picture.
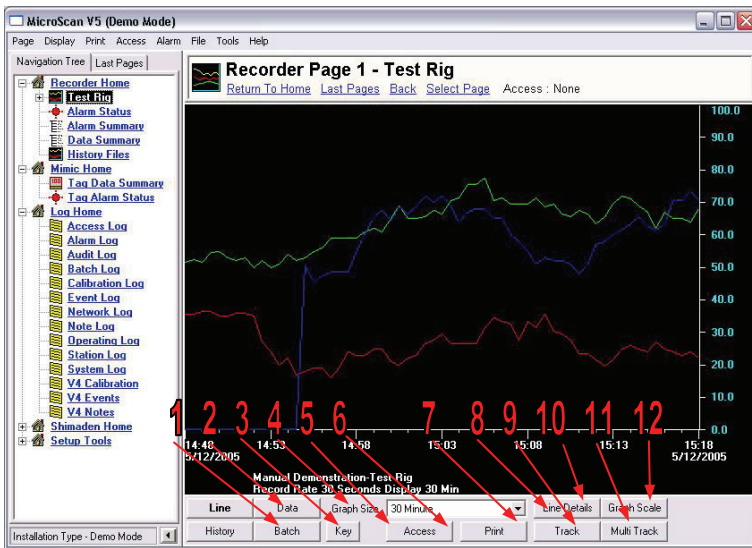
1.   Switches the graph into history mode to view trends before the current graph screen. In the history mode forward and backward buttons are added to the bottom of the screen to allow the user to scroll through the history of the readings.

2.   Selects line graph mode.

3.   Allows a view of a Batch recorded graph.

4.   Selects a view of the Line identities and their current Data values only.

5. Turns on a display of line identities.

6. This button allows entry of passwords for access to locked functions.

7. Prints the current graph.

8. Selects the Graph time scale.

9. Opens a display showing the time and value of the current position of the cursor.

10. Opens a box showing line details and enables.

11. Opens a box showing the value of every line at the current time position of the cursor.

12. Allows modification of the graph scales.

5.2 Alarm functions

The Navigation tree also allows access to the various alarm functions. There are items to view an Alarm status, Alarm summary and Data summaries as seen below.

History files can be accessed from the History File item also.

If you click on the check box beside Log home item you will be able to access the many log files. See this also below.
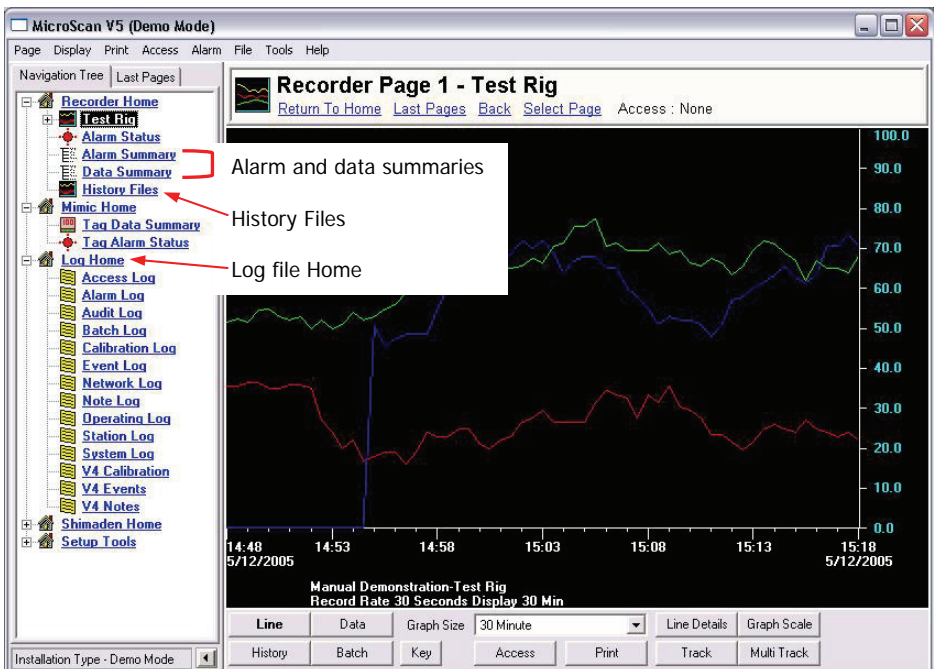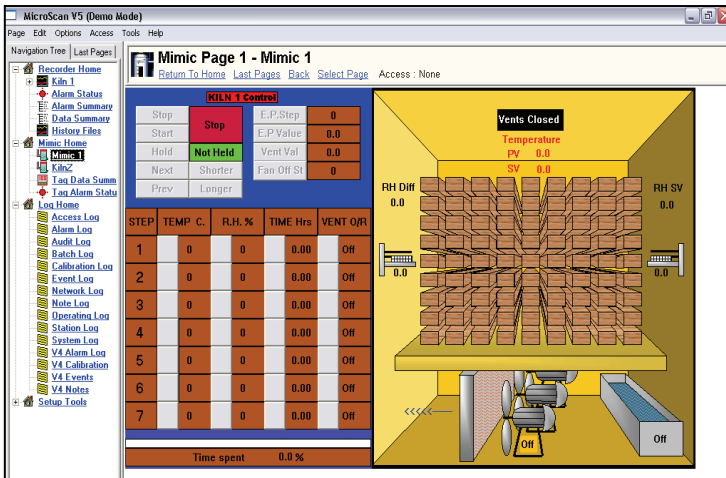
5.3   Running Version 5 with mimics and tags

If your package has Mimic and tag functions, support for these items also appears in the navigation tree.
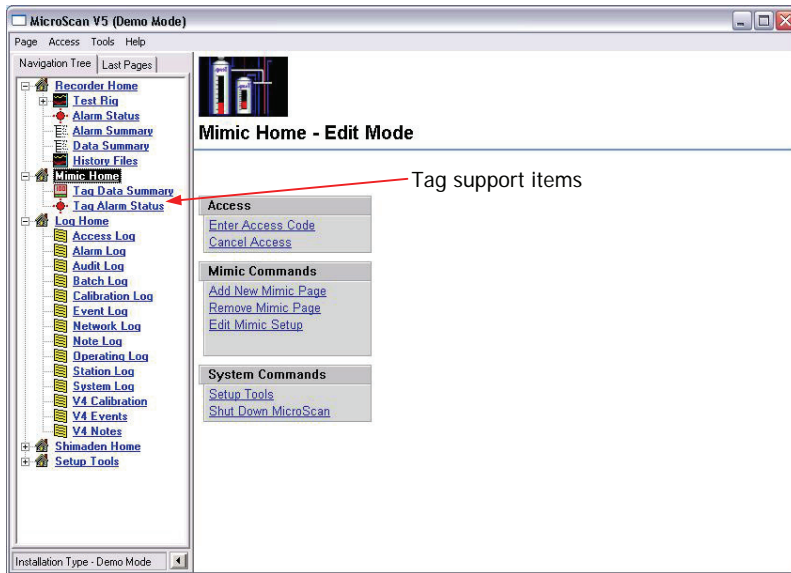
Clicking on the Mimic Home item takes you into a mode where you can add or remove mimic diagrams as shown below.
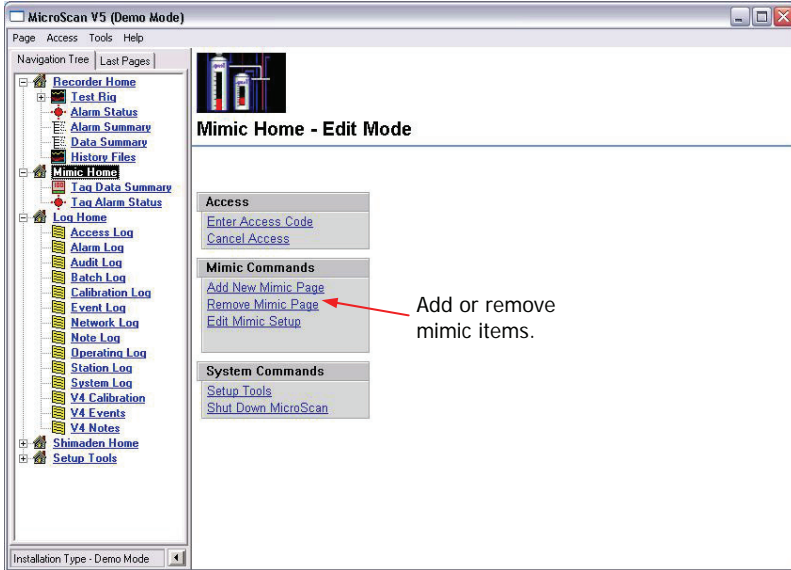
Clicking on the item for a particular mimic allows you to use the mimic as per the example shown below.

The mimic item list also includes support items for Tags. A tag summary and alarm status report is available.

Tag support items

Important!

Once you have your new system successfully operating, the system needs to be registered before the temporary license expires.

---
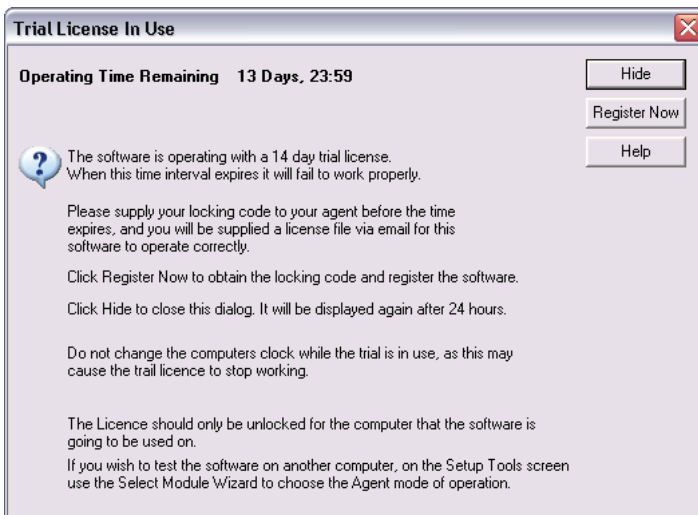
6 Registration

All MicroScan V5 packages are now supplied with a hardware dongle.

> **Note:** All systems supplied with a hardware dongle will automatically self register providing the original official installation CD is used. If the installation CD is not available the "**6.1 Dongle registration"** process will have to be followed.
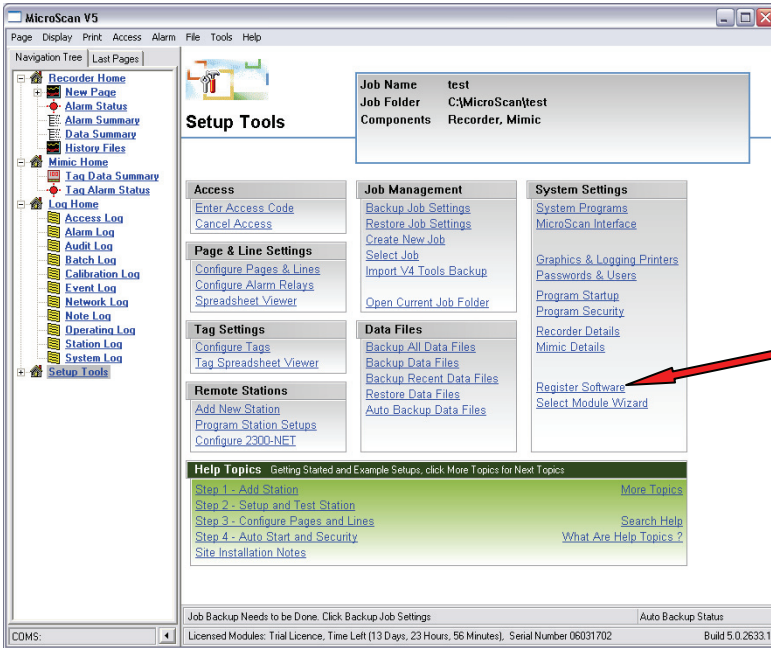
6.1   Dongle registration

If you have chosen to use a dongle for registration the dongle will be supplied with an installation CD which has been preconfigured to install the files that are needed for the dongle to operate.

If your installation includes a dongle, please attach it after you have finished the software installation stage. If the original installation CD is in the drive MicroScan will automatically self register to the system you purchased when run for the first time.

If you have already installed MicroScan version 5 or have previously used the current registration system, it may be necessary to manually install the registration file. The system will tell you if the automatic system has not been successful.

The following section will guide you through the manual process.

To Register click this item.

Next is the box that appears once the registration system is opened:
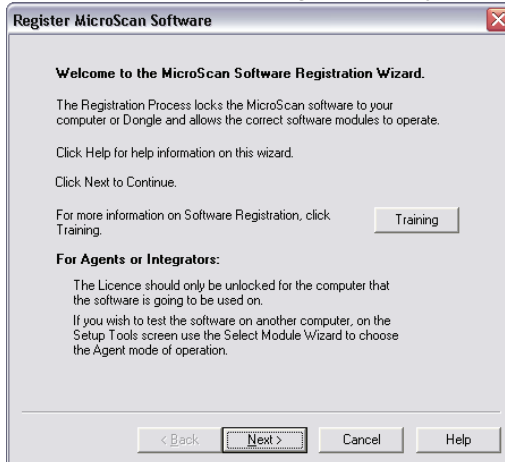
Important!
The dongle **must** be attached during the registration process and while MicroScan Version 5 is running.
We recommend securing the dongle to prevent removal.

As the Registration file exists in the correct directory the file only needs to be imported. The next box is the first step towards this.

- If you have the original install CD then choose that option. MicroScan will automatically find and register when you click 'Next >'.
- If your agent has supplied the license file via email or CD etc then click on step 2 'Import Licence File', then 'Next >'.
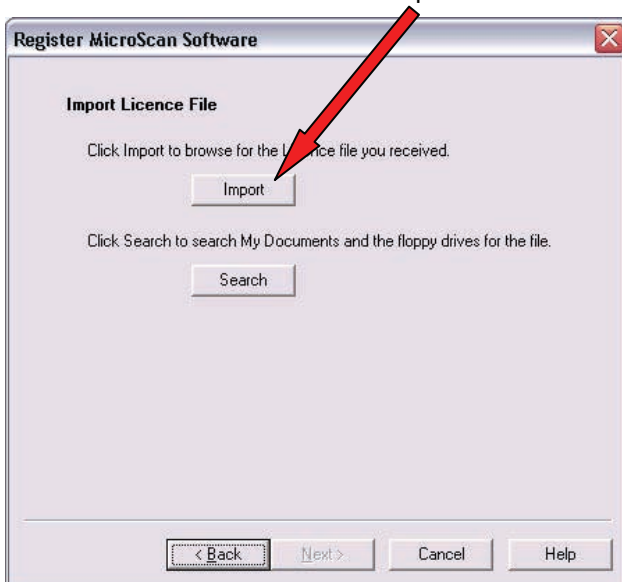
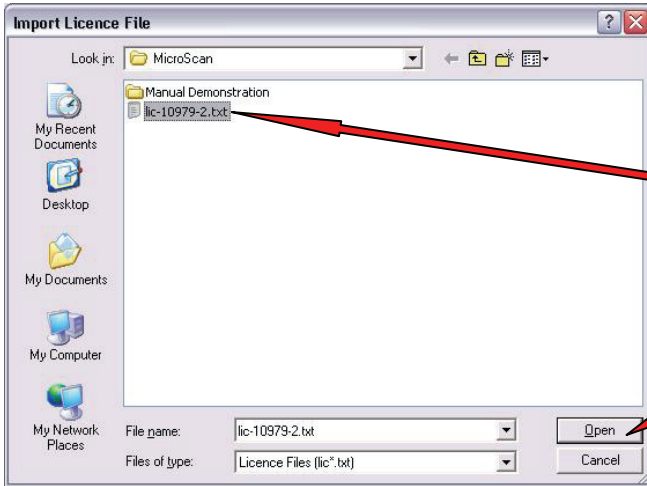Choose this item to install a license supplied by your agent.

Choose this item if you have access to the original install CD.

MicroScan will automatically install the license from the CD.
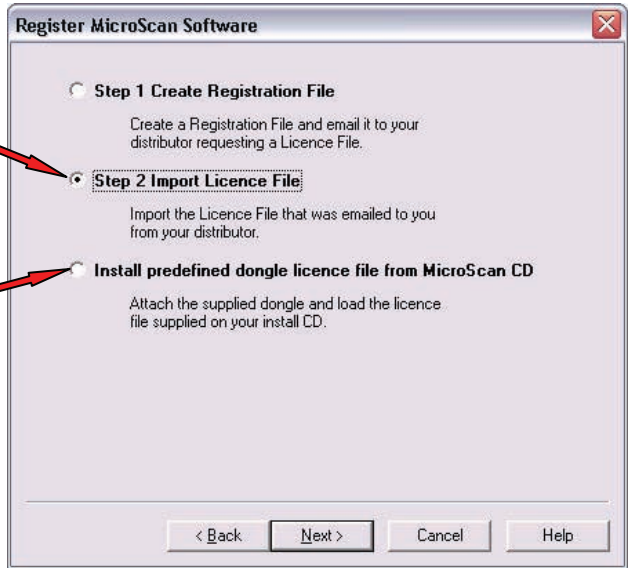
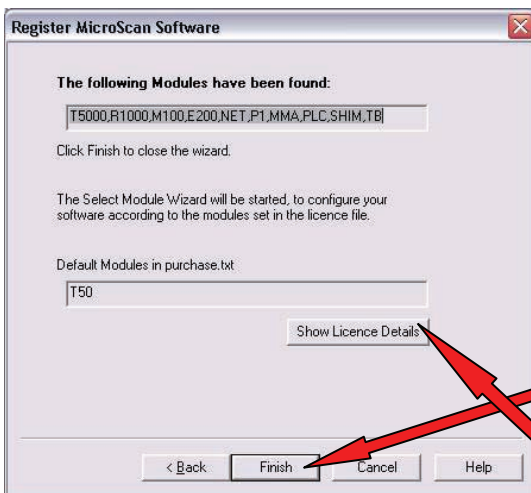The license is saved on the hard drive. Click Import on the next screen.

Select the file beginning with "lic" and ending with ".txt" when the Browse directory box opens below.

Then click "Open".

If the dongle is not attached to the computer you will receive an error message. Attach the dongle and try again.

After choosing the file the next box opens to show the details of the registration. Check these and if there are any questions please contact your agent.

Click "Finish" to complete the registration process.
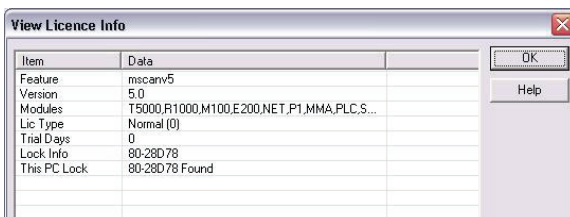
Click "Show Licence Details" to view the licence Info box.

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