

# **GUARDIAN**

## ***Guardian Installation Guide***

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## Guardian Installation Guide

### Introduction

This guide describes how the various applications that make up the Guardian suite will be installed on your computer. Please read it carefully as it is important to understand the functions that are available and where the various applications will be located.

The Guardian CD contains three setup files, and these install a different suite of applications targeted towards three different situations;

**Guardian:** Installs all applications except for the Remote Viewer. Use this for setting up a computer to run the main Guardian data acquisition system.

**Remote Viewer:** Installs the Guardian Project Manager and Guardian Remote Viewer applications. Use this for setting up a computer to remotely view an existing Guardian system.

**IScope Suite:** Installs a set of independent spectral analysis tools. Use this for initial site survey or for additional machine analysis outwith the Guardian system.

The five main Guardian applications are listed below, along with their shortcut locations and description.

Program	Location	Description
Guardian	Desktop & Programs Menu	Runs currently selected project
Project Manager	Desktop & Programs Menu	Manages lists of frequently used databases and provides a quick-launch facility for all of the applications.
Remote Viewer	Desktop & Programs Menu	Runs Guardian Remote Viewer
Visual Designer	Programs Menu	Originates an active Guardian project and enables database editing
Database Toolkit	Programs Menu	Allows database upgrades and repairs

### How Guardian projects are stored & selected

A Guardian project is contained completely within a database structure, this may be either a Microsoft Access compatible file, or a database held on a SQL Server installation.

When using Microsoft Access files, it is advisable to place them in separate project folders to allow for additional files relating to the project to be contained within a single folder. A project folder can be stored on any local or network drive, but are normally to be found in "C:\Program Files\Guardian\Databases".

To allow a Guardian system to extend to a size larger than the restrictions of a single Access file, it is possible to split where the samples are stored into additional files. *The Database Toolkit* performs this action and you should refer to its manual for more details. This is another reason why it is advisable to hold each database in a separate folder.

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All of the Guardian applications remember which project was last used, and will by default use that project when started. *Visual Designer* and *Project Manager* allow this default project to be initially selected, or changed at a later date. For most installations the selection of the default project is required only once.

In addition to the default project, the *Project Manager* application allows a list of projects to be maintained, and quickly selected at anytime without further knowledge of their actual storage locations. This is useful when more than one project is installed on the same computer to be run on different occasions, or to use the *Remote Viewer* to view several Guardian systems located elsewhere.

*Project Manager* is associated with the Guardian database file (.GDB extension), and therefore allows a project to be selected by simply double-clicking its filename from within Windows Explorer.

### Computer Regional Settings

Guardian requires that numbers and dates are represented in a particular format. The settings for these can be found in the *Control Panel Regional and Language Options*. When *Guardian*, *Remote Viewer* or *Visual Designer* start, they will check that the correct settings are in place and will warn you if either are incorrect. Changing these after the application starts will lead to unpredictable results and potentially lost data. The required settings are:

Numbers to use a dot as the decimal separator e.g. "4.2"

Times to use a colon as the separator e.g. "18:00:00"

Dates to use a forward slash as separator and English months e.g. "31/May/1967"

### Documentation Support

Included in the installation CD are a number of manuals and application notes that provide guidance in using the Guardian applications. These are also installed with the software and can be found in the folder "*C:\Program Files\Guardian\Documents*".

Program	Manual
Guardian Remote Viewer	Guardian Viewer Step-by-Step Guide
Project Manager	Guardian Project Manager User Manual
Visual Designer	Guardian Visual Designer User Manual
Database Toolkit	Guardian Database Toolkit User Manual

### Developing a Project

A Guardian project can be originated from one of two sources. The first is where the project has been originated and configured by a third party and is ready to load on to your computer. The second is where the project is developed using the *Guardian Visual Designer* development tool.

If you have a project that has already been prepared, then the files will be contained in a folder. Follow the steps below to load the project folder into the correct place.

1. Install the Guardian suite from the CD.
2. Store the project folder in location "*C:\Program Files\Guardian\Databases*". A space of several Gbytes will typically be required as measurements are taken over time, so

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ensure that this space is available on the C:\ drive. The above location is the default where other applications will look for projects.

3. Double-Click its file to launch the Project Manager, and click the **Guardian** button to start.
4. For subsequent launches of the project, simply click on the **Guardian** Icon on the desktop.

If you are developing a project yourself using *Visual Designer*, the project folder will by default be put in the same location as above. By using Visual Designer the project will be set at the default project and therefore can be run directly from the **Guardian** icon.

### Guardian Remote Viewer

*Guardian Remote Viewer* enables data collected by another Guardian application to be viewed on a different computer. In other words, *Remote Viewer* simply looks at pre-gathered data that is already in another database. It is possible to view data from a number of different active databases using this program. This is particularly useful for service engineers who may be responsible for a number of different plant installations.

Use the *Project Manager* to select which project you wish to view, and click **the Remote Viewer** button to launch the application with your selected project. Once a project has been selected, you don't have to select it each time you run *Remote Viewer*. Simply run *Remote Viewer* each time you want to look at the data.

### Guardian Project Manager

*Guardian Project Manager* is a useful utility that provides an easy method to select a project to be used, and which application to use it with. It provides access to all of the other Guardian applications.

If you are using *Remote Viewer*, or are developing multiple system databases, refer to its manual to see how it can make selecting different projects simple. However, for simple installations it is often not needed and its shortcut can be removed in this case.

### Guardian Database Toolkit

*Guardian Database Toolkit* is a utility that can perform emergency repairs to damaged files. It is also the method in which future Guardian releases upgrade your database in order to keep it up-to-date. This application can be launched from the Guardian menu item in the **Start...Programs** menu list.

### Other Support Utilities

A useful support utility suite is available for the ITA-1 and ITA-2 data acquisition nodes from Icon Research. These are called *IScope-1*, *IScope-2* and *IScope-PV*. These turn an ITA node into a real-time oscilloscope / spectrum analyser and are useful for hardware setup and sensor testing. These applications are independent from the Guardian System, and should not be run at the same time as any of the Guardian applications.