



Product Sheet

1394 Topology Viewer

The Network oriented IEEE1394 Viewer

The **Pionsys® 1394 Topology Viewer** is a software tool for the visualization of IEEE1394 (FireWire) based systems. With the help of the **1394 Topology Viewer** the user is able to display the currently present IEEE1394 devices and to perform simple communications with each device.

The **1394 Topology Viewer** offers a lot of information about the chosen IEEE1394 bus and its connected IEEE1394 devices. Further important device functions (such as read-, write- and lock-transactions) can be tested and the available device information (e.g. self-ID packets, vendor and model name, GUID) are displayed by the **1394 Topology Viewer** clearly arranged.

Areas of Application:

- introduction and training in IEEE1394
- analysis and visualization of complex IEEE1394 networks
- error tracking within IEEE1394 networks
- displaying of the pictures from IEEE1394 cameras

The main tasks of the **1394 Topology Viewer** are shown below:

- flexible visualization of the present IEEE1394 buses and devices
- extensive analysis of IEEE1394 buses and devices
- displaying of the pictures from IEEE1394 cameras

Flexible Visualization

In order to provide flexible visualizations, the **1394 Topology Viewer** provides two different views onto the currently present IEEE1394 devices. The views differ in the amount of displayed details and the number of IEEE1394 devices which can be displayed onto one screen simultaneously. During runtime the user is able to switch between those views and to adapt the behavior of the program to his requirements. Several IEEE1394 buses can be displayed at a time and the program also allows to open two different views onto the same bus.

To achieve best visualization results and highest readability of information, the **1394 Topology Viewer** supports zooming and scrolling.

Extensive Analysis

Via the built-in functionality of the **1394 Topology Viewer** the user is able to send read, write and lock commands to the present IEEE1394 devices and to get general and specific information about the currently selected bus and all of its IEEE1394 devices. This information includes bus statistics, the topology map and speed information as well as the available isochronous resources and detailed identification information about each device.

Displaying of the Pictures from IEEE1394 Cameras

Another feature is the IEEE1394 camera viewer, which is used to display the moving pictures of IEEE1394 cameras:

- several IEEE1394 camera viewer dialogs can be opened at a time
- the pictures of multiple IEEE1394 cameras can be displayed simultaneously

All of the dialogs of the **1394 Topology Viewer** can be used at the same time. In addition, the user is able to open various instances of the available dialogs in order to adapt the functionality of the program to his current requirements.

User Interface

The user interface of the **1394 Topology Viewer** is divided into the topology view(s) and several dialogs. While the dialogs provide detailed information about the selected IEEE1394 bus and its devices, the views display the current topology and some basic information about the present devices.

The following pictures explain some of the parts of the user interface:

The screenshot displays the **1394 Topology Viewer** application. The main window shows a network topology with nodes labeled 'S400' and '1394 PC'. A status window at the bottom left shows bus information: '[16:23:27] Bus-reset complete detected: Adapter = 0, BusID = 1023, current bus-reset count = 10' and '[16:23:27] Current PhyID of the source of the last bus-reset: 0'. A camera viewer window shows a live video feed of a dog. An information dialog window shows a table of hex-to-ASCII values and a 'Read' button.

A Topology View displays the current topology. Multiple **Topology Views** can be opened simultaneously.

The **Camera Viewer** is used to display the moving picture of an IEEE1394 camera.

The **Status View** contains current information.

Multiple adapters and buses can be examined in parallel.

The **Information Dialog** provides detailed information about all of the present IEEE1394 devices.

Requirements

The following requirements must be fulfilled for the operation and usage of the **Pionsys® 1394 Topology Viewer**:

- PC or Laptop with at least one IEEE1394 (FireWire) OHCI host adapter
- Microsoft Windows XP or higher (other operating systems on inquiry)

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