

Kaleido-K2 Quick start manual

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1 The Kaleido-K2 includes:

- Quick start manual
- Release note document
- Mouse
- Keyboard
- Kaleido-RCP
- Kaleido-RCP cable
- CD-ROM
- 2 power cords
- Cross over Ethernet cable
- DVI to VGA Adapter

2 Documents:

Quick Start Manual: Includes basic information to get the Kaleido-K2 up and running, and to get prepared to configure and operate the system. Includes all the installation instructions and wiring information.

Readme document: The readme document explains the contents of the Kaleido CD-ROM. The readme.txt document can be found onto the Kaleido CD-ROM.

User's Manual: The User's Manual explains item-by-item software-related configuration and operation.

How To: The How To is a manual that includes most of what you should know to configure and operate the Kaleido-K2.

Hardware Manual: The Hardware Manual explains item-by-item hardware related configuration and operation.

Online Help: Use the online help located in the main tool bar of the KEdit software. It is an online version of the User's Manual.

Release note: Read the release note carefully. It includes a listing of the new features, known issues, compatibility issues with other hardware and Q & A.

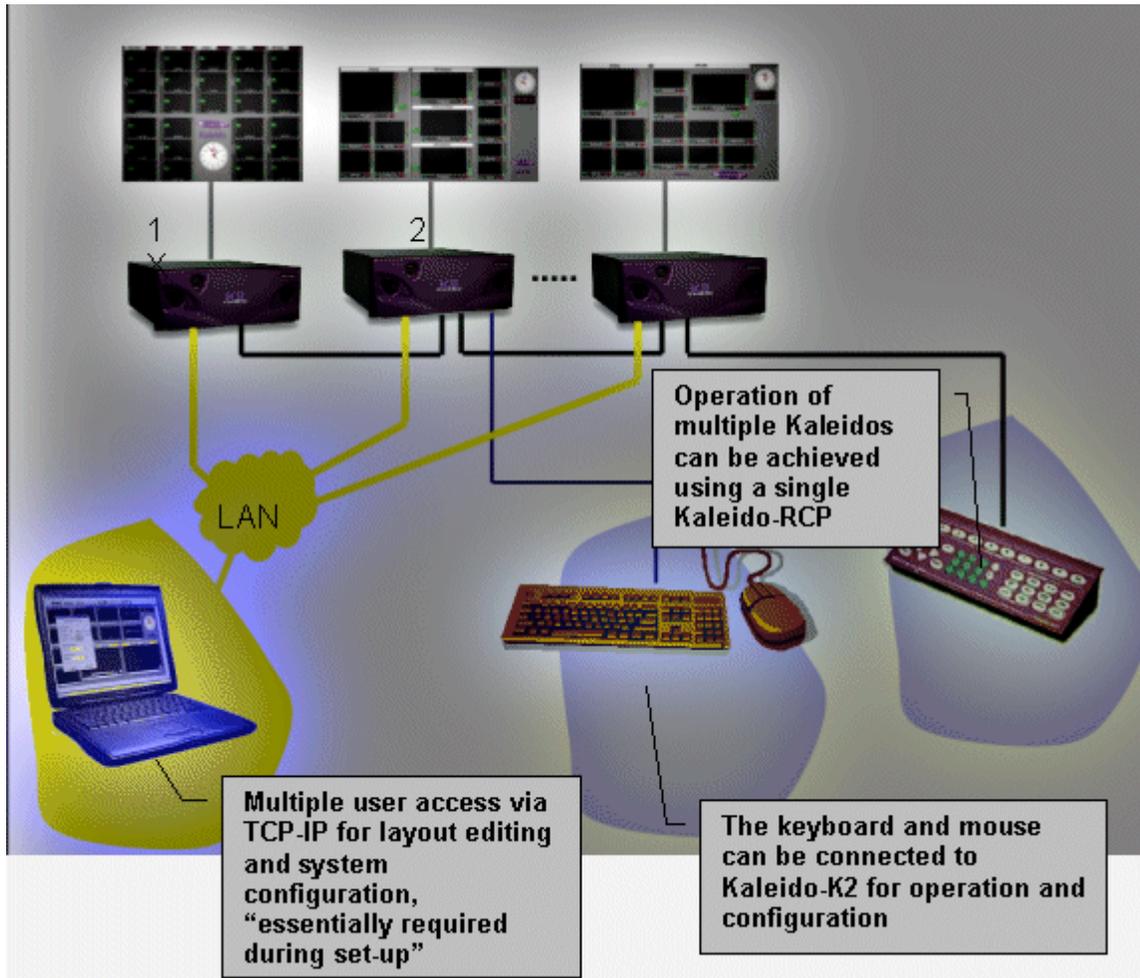
3 Kaleido-K2 Software Versions

Kaleido V4.30: The first generation of the software designed to support Kaleido-K2, and also supporting Kaleido Classic.

Kaleido V4.42, 4.51, 5.02, 5.10, 5.20, 5.30: Upgraded versions of the software, with additional features and enhanced functionality.

Kaleido V5.40: The latest version of the software, with additional features, enhanced functionality and optimization. This software is described in this manual. Version 5.40 is supported by the Kaleido-K2 system only.

4 High-level communication diagram:



5 Interconnections:

- **Ethernet:** Miranda recommends that you connect your Kaleido-K2 to a network, using a network switch or simply via an Ethernet crossover cable (the use of a HUB is not recommended – see the Release Note). This connection is essential for remote configuration through the Layout editor. We recommend a 100 base-T switch for better performance.
- **Kaleido-RCP:** The Kaleido-RCP remote control panel can be connected one-to-one to the Kaleido-K2 using the included cable. The Kaleido-RCP must be connected to the RS-422 port on the rear panel of the Kaleido-K2.

A single Kaleido-RCP can be used to control several Kaleido-K2s in cascade mode. See the *Guide to Installation and Operation* for wiring information.

- **Keyboard and Mouse:** The keyboard and mouse plug into the rear panel of the Kaleido-K2. Kaleido Software version 5.40 offers more on-screen mouse functions, which are useful in day-to-day operations. These functions supplement those available through the Kaleido-RCP. The keyboard emulates the Kaleido-RCP and can be useful for administrative operation.
- **Output to display:** Use one of the two available outputs of the Kaleido-K2, DVI-I or RGBHV to drive the display. **Seen from the rear**, the main output module is located on the left hand side and the secondary output module is located in slot 10.
- **Connect inputs:** Connect the inputs on the rear panel of the Kaleido, matching each input signal format to the input card type. Looking at the rear panel, the input numbers increment from left to right.
- **Connect power supply:** Connect each power supply to a power source using the supplied power cords. In normal operation, both supplies should be switched ON (power switch on the power supply unit set to |). A green status lamp will illuminate on the power supply unit.

Caution: Make sure all cards and modules are properly inserted and seated before powering up.

6 Powering up the Kaleido-K2:

Power up the Kaleido-K2 using the power switch located on the front of the unit. Note that the Kaleido-K2 has redundant power supplies, available on the rear panel, each of which has its own power switch. If only one of these power supplies is powered, a buzzer alarm will be audible. To shut the buzzer off; press the red button located near the bottom power supply's on-off switch.

- The K2 application will start by itself. **PLEASE WAIT.** (*The complete boot up process takes 3-4 minutes*).

The first item to appear at the output during the boot-up process is the video, positioned according to the last saved boot-up layout. The rest of the output screen remains black behind the video until the boot up process is complete. Video may glitch a couple of time during this sequence. After approximately 3 minutes, the last layout in use before the Kaleido-K2 was restarted is loaded with all graphical and video components. This layout is called the "Current Layout" and will be updated after every modification.

Note: *To view the system boot-up sequence, you can press the Graphic Bypass switch. This switch is located on the edge of the MWO-HR card and is accessible from the front. Don't forget to press the switch again when the application is up and running to return to the video image display.*

7 Setting up the IP configuration:

The Kaleido system is configured, by default, with the following IP address: **10.0.3.22**.

To change the IP address, proceed as follows:

- Select Start –Settings-Networks and Dial-up Properties.
- Choose Local Area Connection.
- Go to the menu File Properties.
- Choose Internet Protocol (TCP/IP) and select Properties.
- Change the IP address for the new address that your network administrator has provided. *e.g. 100.100.50.1.*
- You may also change the Subnet Mask; *e.g. 255.255.255.0* then click OK.
- Click OK in the Local Area Connection Properties window.
- Reboot the system.

Note: Your KEdit PC must also be set up within the same range of addresses to communicate with the Kaleido-K2. See the *ANNEX – Establishing an IP Network Connection on the client computer* to set-up your network connection correctly.

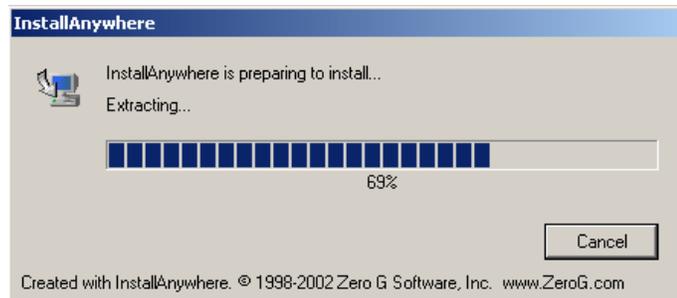
8 Installing the KEdit software:

You can install the KEdit software onto a client PC located on the same network. This client PC must have at least a Pentium III processor with 128 M of RAM. Version 5.40 supports both Windows XP (Service Pack 1) and Windows 2000.

Use the KEdit installer located on the CD-ROM in the *Kaleido Software V5.40\KEditFull* folder.

Step 1: Open the *KEditFull* folder within the KaleidoSoftware V5.40 folder on the CD-ROM

Step 2: Double click on KEditSetup_5_40_00xx.exe or _RCx if it is a Release Candidate version.



Step 3: If you have a previous version of the KEdit software installed on your computer, a panel will prompt you to convert your data (Monitors, Channels, Alarm Monitors ...) from previous version into the version 5.40 environment. Both versions will co-exist onto your PC.



Step 4: This step tells you where the files will be installed and the space required on your hard disk. Press install.



Step 5: This window indicates that the software has been installed successfully. Click on "Done" to terminate the installation.



Step 6: Double click on the KEdit 5.40 icon on your desktop to start the KEdit application.

NOTE: The Kaleido software and Kaleido Edit must have the same version number, or they will not be able to communicate with each other. For that reason, the Kaleido Edit version 5.40 will be added to your PC and will not overwrite a previous version of Kaleido Edit already installed there. You will then be able to access Kaleido systems with different versions from the same PC.

9 Changing output resolution:

It is necessary to adjust the Kaleido-K2's output resolution and frame rate to match the display connected to the output. To do this, you will need to use KEdit in the online mode:

- From the KEdit File menu, select File-Open-Online (or CTRL+O).
- Select the IP address or name of your Kaleido-K2 and click open.
- Select View–Settings-Kaleido Calibration (or press F11).
- From the pull-down box labeled “Resolution”, select the combination of resolution and frame rate that best matches your display (where 60Hz is shown, the actual rate is 59.94Hz).

Please reboot the Kaleido-K2 after changing the output resolution.

10 Operating the Kaleido-K2:

10.1 Using the Kaleido-RCP:

- Press the Device key, and the Kaleido-K2's ID will appear on the output display, e.g. *Device 01*. Use the numeric Keypad to select the number as shown. The Kaleido-RCP will now control the selected Kaleido-K2.
- You can use the 10 preset functions to load the factory layouts. Some layouts have been created for 16:9 displays and others for 4:3 displays.
- Use the select key and navigate through the layout to apply a function (full screen, over scan, aspect ratio). Full screen layout is also a configurable layout and is configured for 4:3 displays at the factory.
- The menu, status and text buttons are not supported in this version.

10.2 Using the mouse:

As shipped from the factory, the Kaleido-K2 is configured to respond to mouse clicks on its output screen as follows:

- Single-click on any video screen in the layout to select its audio for the audio monitoring.
- Double-click on any video screen in the layout to display it in the full-screen mode.
- Right-click on any video screen, status indicator, UMD or text label in the layout to display a pop-up menu with more functions.

Use the KEdit software to configure additional actions in response to mouse clicks and mouse double-clicks on on-screen objects, including control of routing switchers, control of count down timers, loading layouts from files, triggering GPI outputs and more.

See the User's Manual for complete details.

11 Upgrading the Kaleido-K2 Software

Because the Kaleido does not have a CD reader, it is necessary to install the software from a remote computer through a network connection. You will need a local keyboard and a monitor connected to the Kaleido-K2 for this procedure. To begin, locate the CD-ROM drive (usually the D: drive) of the source computer on the network from the Kaleido-K2 system.

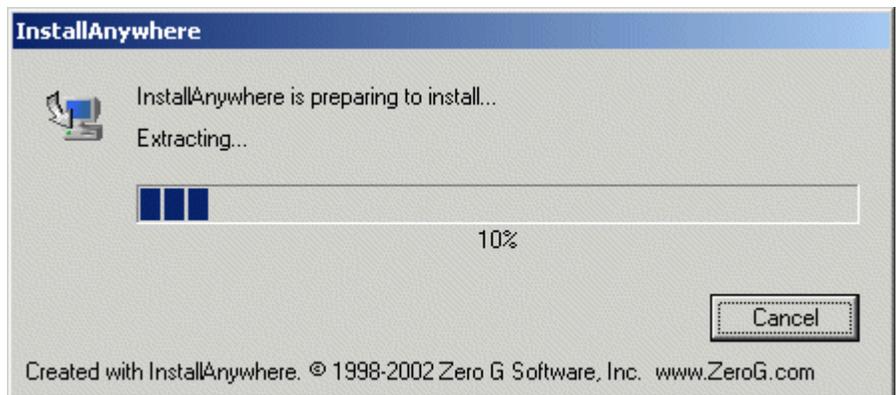
Use the Kaleido installer located on the CD-ROM in the *Kaleido Software V5.40\KaleidoFull* folder

Step 1: Copy the exe file from the "*Kaleido Software V5.40\KaleidoFull*" CD-ROM folder to the Kaleido-K2's C-drive. Remember, the Kaleido-K2 system administrative password is the following:

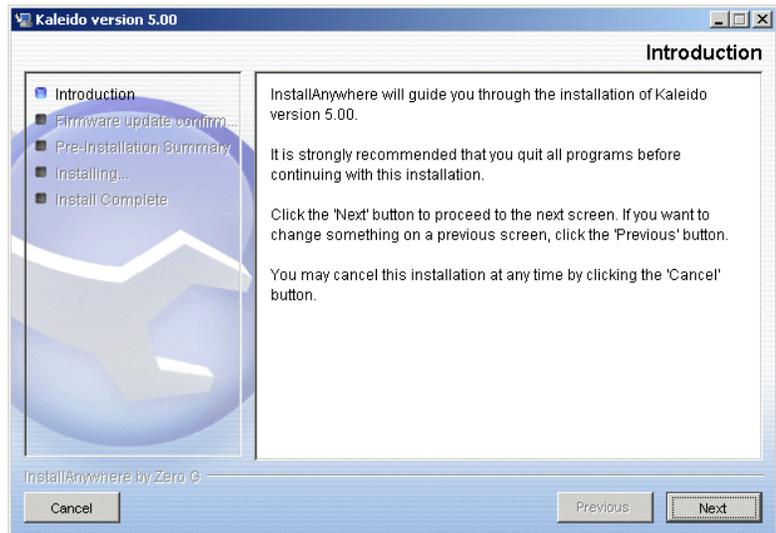
User name: administrator

Password: kaleido

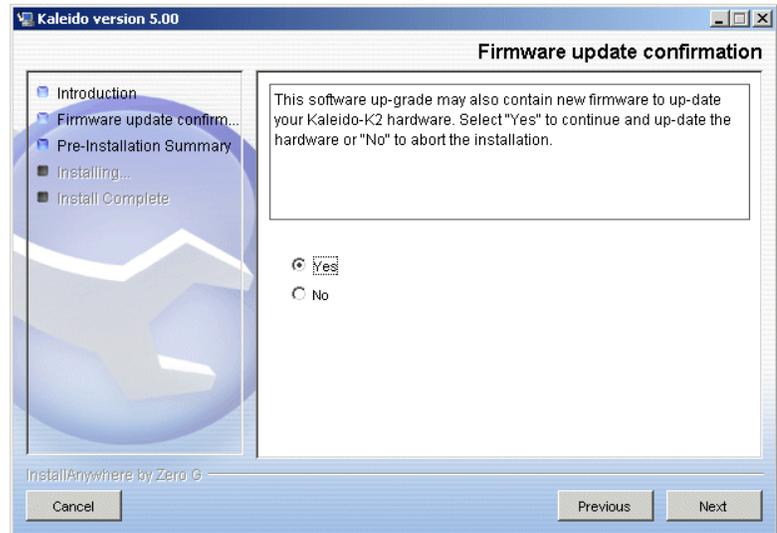
Step 2: Double click on KaleidoSetup_5_40_00xx.exe or _RCx for a Release Candidate version.



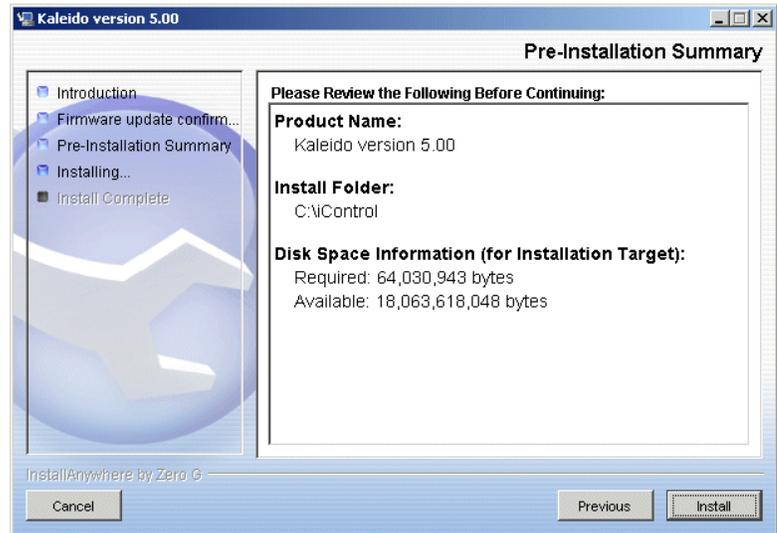
Step 3: An introduction panel is shown; click Next.



Step 4: A panel will prompt you to accept the firmware upgrade. Select Yes and click Next. If you select No, the installer will quit without installing the new software version.



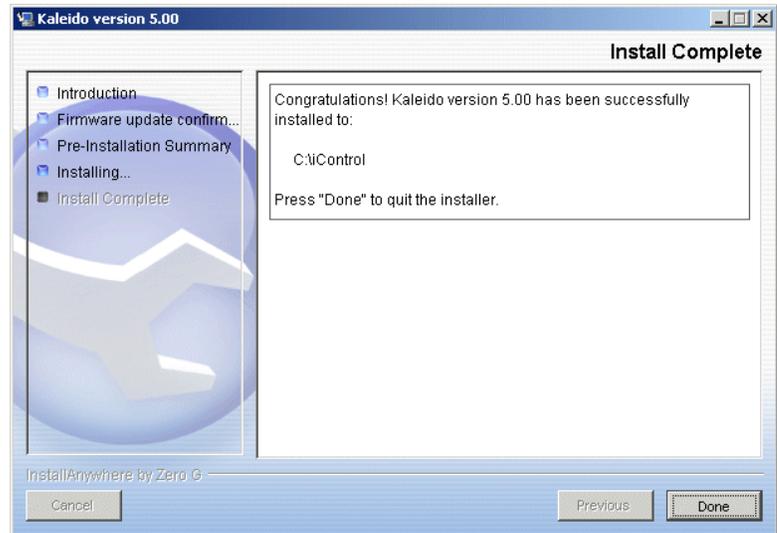
Step 5: A summary of what will be installed is presented; just click on Next.



Step 6: The installation is in progress. Wait until the installation finishes.

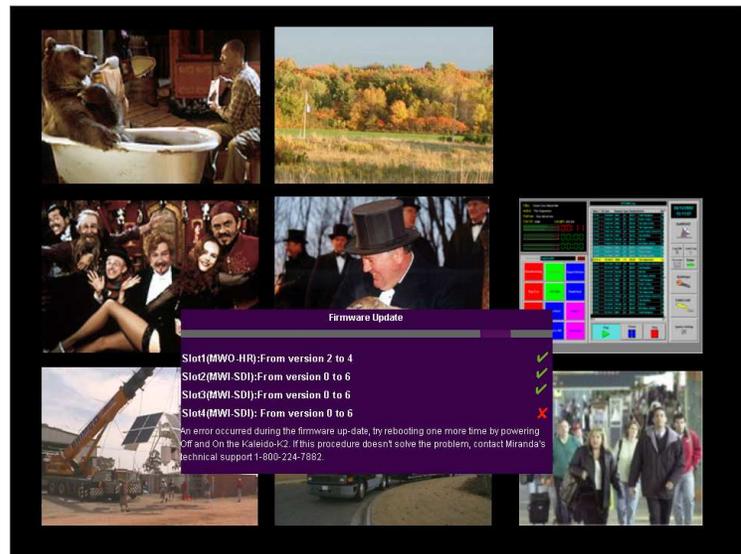


Step 7: Click on Done to quit the installer.



It is now time to reboot the Kaleido-K2.

During the first boot-up of the Kaleido-K2, the Kaleido will try to upgrade the firmware of the cards. A status window indicates the progress of the firmware upgrade. It may take up to 20 minutes to upgrade a fully populated system. The application will start up automatically after the firmware upgrade and boot-up sequence. A confirmation will be displayed after each card's upgrade. In cases where the upgrade has not been completed, you may have to power the unit off and on again.



12 Installing TSL, Thomson-Andromeda and ENCODA dynamic UMD

Under Monitor Displays (UMDs) and Text Boxes in the Kaleido Monitor Wall output may contain dynamically updated text. This text is accessed through a TSL, Thomson-Andromeda or ENCODA Under Monitor Display System Controller. This portion of the manual describes the interface between the Kaleido and the TSL, the Thomson-Andromeda or the ENCODA. Please see the TSL, the Thomson-Andromeda and the ENCODA user's manuals for other connections to their equipment.

The physical interconnection is via a cable connecting to the Kaleido's serial port.

Once the two devices are interconnected, it is time to install the software to control them.

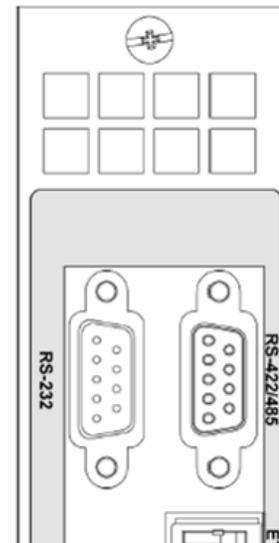
12.1 Connection to the Kaleido-K2

Located on the rear panel of the control panel two control ports are available.

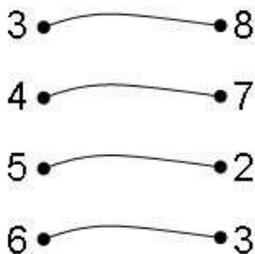
COM1: RS-232 Can be used to connect to the TSL controller. You need a converter from RS-232 to RS-422 in this case because the TSL ports are all RS-422.

COM2: RS-422/485: Is mainly used for connecting the Kaleido-RCP.

Make sure the pin out from the TSL to the Kaleido-K2 COM port is null modem.



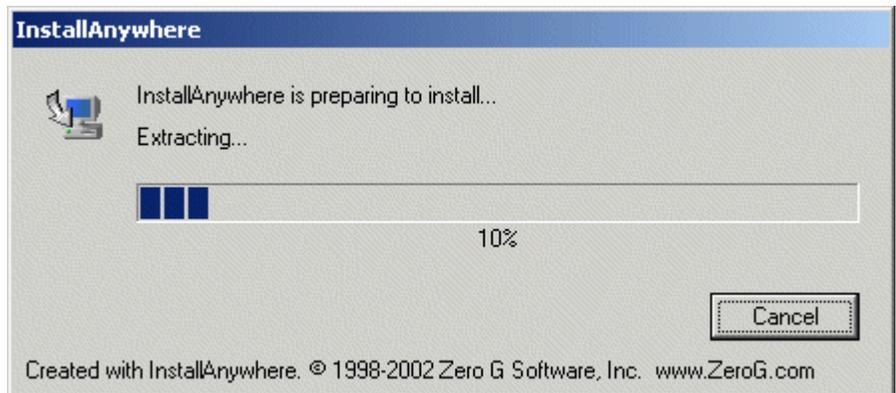
TSL Controller	Kaleido-K2
RJ-45	RS-422



12.2 TSL installation

Step 1: The TSL installer is located on the Kaleido CD-ROM under Kaleido Software VX.xx\Options\TSLSetup_X_xx.exe. Copy the file to the Kaleido-K2's C-drive.

Step 2: Double-click on TSLSetup_X_xx.exe.



Step 3: The installer will install the TSL device on COM1 by default (an adapter could be required).

If you want to install the TSL on the COM2 port, edit the file "TSL.properties" and change the *ComPort* parameter to COM2.

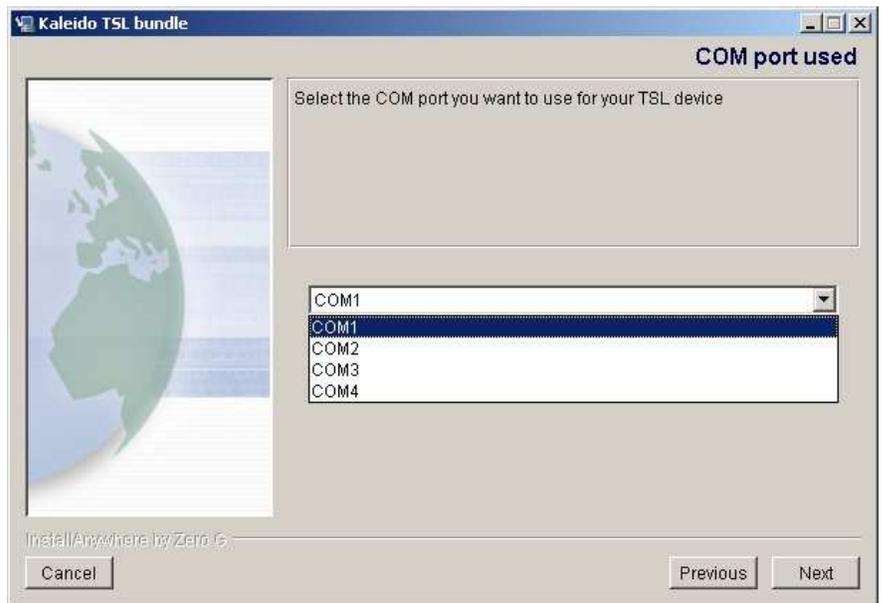
The TSL.properties file can be found, after TSL installation, under the following folder:
c:\iControl\Startup\Tsl

```
#Com port definition for  
the TSL service.  
ComPort=COM1  
BaudRate=38400  
DataBits=8  
StopBits=1  
Parity=EVEN
```

```
# Legal time in seconds  
the TSL service will wait  
for serial data before  
disconnecting.  
SerialDataDelay=15
```

Note that you can reconfigure the allowable wait time for serial data by typing a new value for SerialDataDelay line

Step 4: Follow the on-screen instructions to finish the installation.



12.3 Thompson-Andromeda installation

The Thompson-Andromeda installer is located on the Kaleido CD-ROM under Kaleido Software VX.xx\Options\AndromedaSetup_X_xx.exe. Copy the file to the Kaleido-K2's C-drive.

Just follow the on-screen instructions to install the Thompson-Andromeda service.

The installer will automatically install the device to the COM1.

To change the serial port settings of the Thomson-Andromeda, use the xml files located onto your Kaleido system under c:\iControl\Startup\Phillips\umdcfg.xml.

NOTE: If you choose to control the Thompson-Andromeda using the COM2 of the Kaleido-K2, you must stop the MT_RCP service, as follows:

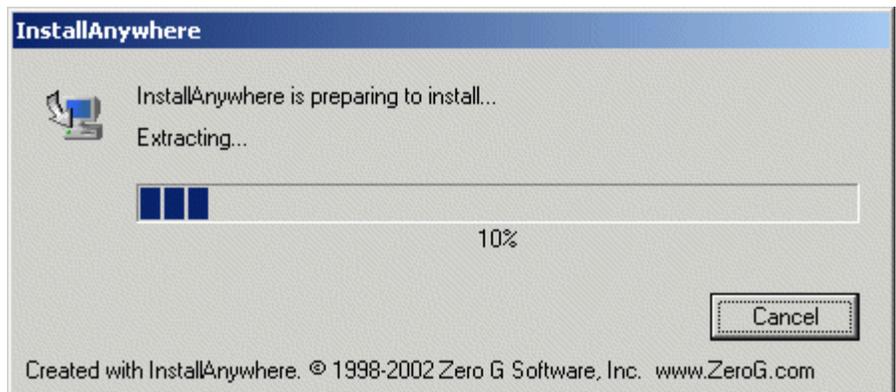
1. Click on the Services icon that resides on the Kaleido-K2's desktop.
2. Right-click on MT_RCP and select *properties*.
3. Change the Startup Type to Manual to avoid automatic startup of the RCP service at the next Kaleido-K2 boot-up.
4. Click on the Stop button to stop the RCP service now.
5. Click on the Ok button.
6. Restart the MT_PHILLIPS service manually by right-clicking on it and selecting Stop, then Start.

12.4 ENCODA installation

Step 1: The ENCODA installer is optional. Call Miranda to get the ENCODA driver (**MWS-UMD-Encoda**)

Locate the EncodaSetup_X_xx.exe on the ENCODA CD-ROM. Copy the file to the Kaleido-K2's C-drive.

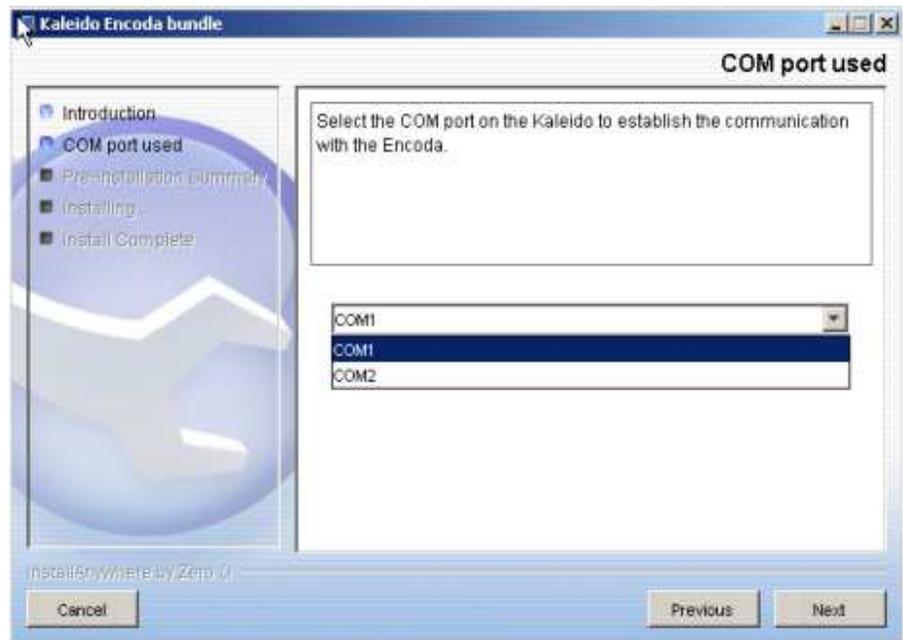
Step 2: Double-click on EncodaSetup_X_xx.exe.



Step 3: The installer will install the Encoda device on COM1 by default

If you want to install the Encoda on the COM2 port, edit the file "Encoda.properties" and change the *ComPort* parameter to COM2.

The Encoda.properties file can be found, after Encoda installation, under the following folder:
c:\iControl\Startup\Encoda



Step 4: Follow the on-screen instructions to finish the installation.

12.5 Configuration

See the Kaleido user's manual for further setup and configuration details.

12.6 Uninstalling TSL

If you wish to uninstall the TSL service, go to Start->Programs->Kaleido->Uninstall TSL, and follow the on-screen instructions.

12.7 Uninstalling Thomson-Andromeda

If you wish to uninstall the Thomson-Andromeda service, go to Start->Programs->Kaleido->Uninstall Phillips, and follow the on-screen instructions.

12.8 Uninstalling ENCODA

If you wish to uninstall the ENCODA service, go to Start->Programs->Kaleido->Uninstall ENCODA, and follow the on-screen instructions.

13 Installing SYNERGY

13.1 Introduction

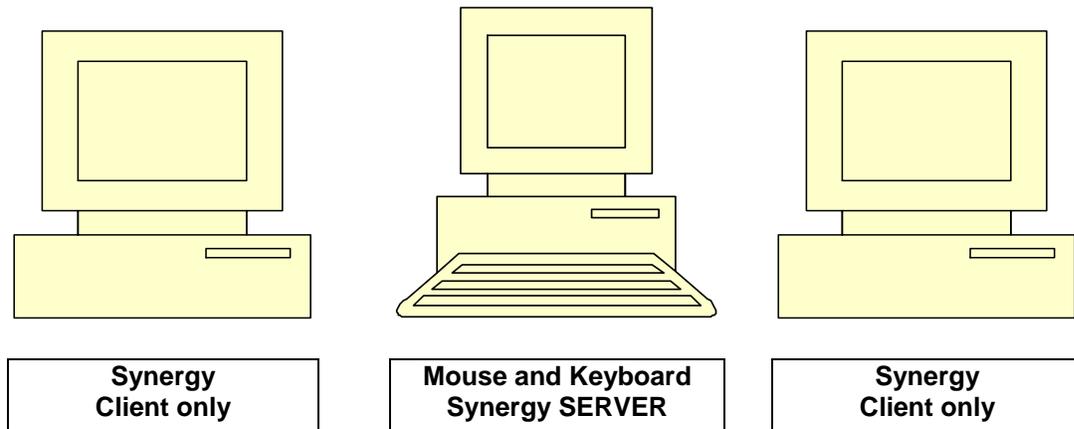
Synergy is a software application that allows multiple Kaleidos with adjacent screens to be controlled with a single mouse and keyboard, reducing desktop clutter and simplifying operations.

One Kaleido must have a mouse and keyboard connected to it. This Kaleido will be the **Server**.

The other Kaleidos can have their own mouse and keyboard or not. Those Kaleidos are called the **Clients**.

The Kaleido displays are considered be laid out on a grid, so that every Kaleido can have up to four neighbors (e.g. above, below, left and right).

Example: 3 Kaleidos using Synergy to operate with a single mouse and keyboard.



The Kaleido running Synergy Server will have a mouse and a keyboard connected to it. Both Kaleidos running Synergy Client will be controlled by the mouse and keyboard of the Synergy Server.

13.2 Requirements

Verify that the TCP/IP networking of your Kaleidos is functioning correctly. Note that all Kaleidos are shipped with the same IP address, and this must be changed to integrate the Kaleido into your local network. You will be unable to operate Synergy on two Kaleidos that have the same IP address.

The Server Kaleido must have a keyboard and a mouse connected to it.

Client Kaleidos must have mouse and keyboard connected only for installation and configuration of Synergy. Once Synergy is configured they are optional but not necessary.

13.3 Installation

You need to install *Synergy* on all the Kaleidos that will be included in the group (the Server and the Clients).

The Synergy application is included in the Options folder of the CD-ROM supplied with your Kaleido.

The Kaleido itself does not have a CD-ROM reader, so the application must be installed on the Kaleido from a remote computer via the Kaleido's IP interface. Proceed as follows:

- Extract the contents of the *synergy-1.0.15-1.zip* file, located in the Options folder on the CD-ROM supplied with your Kaleido. You will need the WinZip application.
- Save the extracted *Synergy* folder to a convenient location on the hard drive of your computer.
- Locate a Kaleido on the network, and copy the Synergy folder onto its hard drive, in a convenient location.
- Repeat this process for all of the Kaleidos that will be using Synergy
- Synergy is not required on your local computer, so you may delete the Synergy folder once it has been copied to the Kaleidos.

Please see the How To manual (available in on-line Help) for instructions on configuring Synergy for your multi-screen Kaleido set-up.

14 ANNEX – Establishing an IP Network Connection on the client computer

In order to operate the Kaleido-K2 from Kaleido Edit, and in order to download software upgrades to the Kaleido, it is necessary to establish an IP connection between the Kaleido-K2 and a remote computer.

Here are the steps to follow to configure the network connection of the computer running the KEdit.

Step 1

First of all, you must find the IP Address of your Kaleido. To do that, plug a keyboard into your Kaleido and press **Ctrl + Esc**; the windows start menu will open. Click on **run...** and type **cmd** in the box, then press **Enter**. A windows command prompt will open. In this command prompt, type **ipconfig** then press **Enter**. Some information about the network configuration of the Kaleido will be shown.

Note: The IP Address has been configured in factory to 10.0.3.22.

If you are asked for a username and password, the correct responses are:

User name: administrator

Password: kaleido

Step 2

Connect the client computer on the network (ask your network administrator for details).

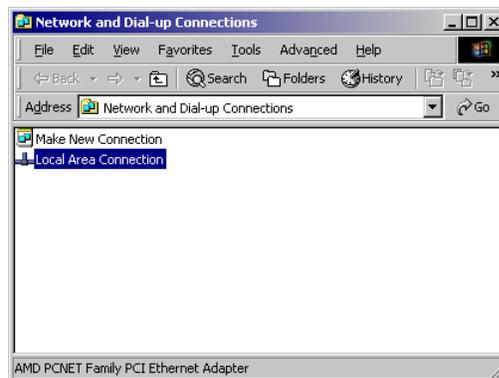
14.1 If your computer is running Windows 2000

Step 3

Right click the "My Network Places" icon on the desktop and select Properties.

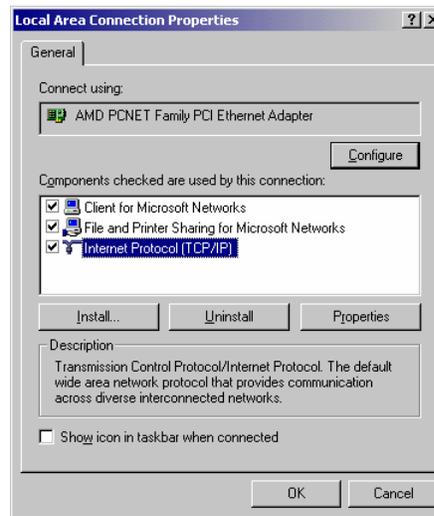
Step 4

Right click the "Local Area Connection" icon and select "Properties".



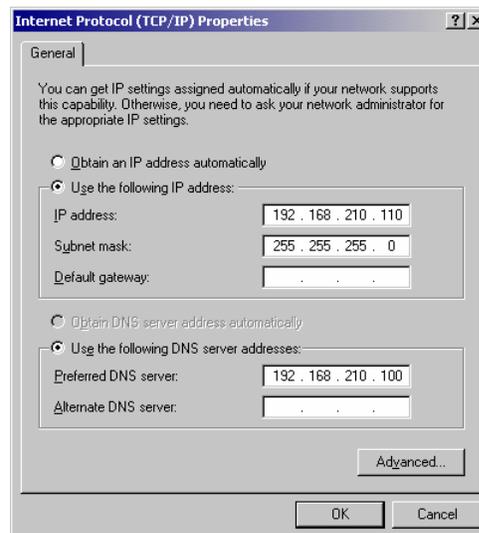
Step 5

Click on Internet Protocol (TCP/IP) and click "Properties".



Step 6

Enter an IP address that is in the same range as the Kaleido-K2 and click OK.



Step 7

Click OK in Local Area Connection Properties box.

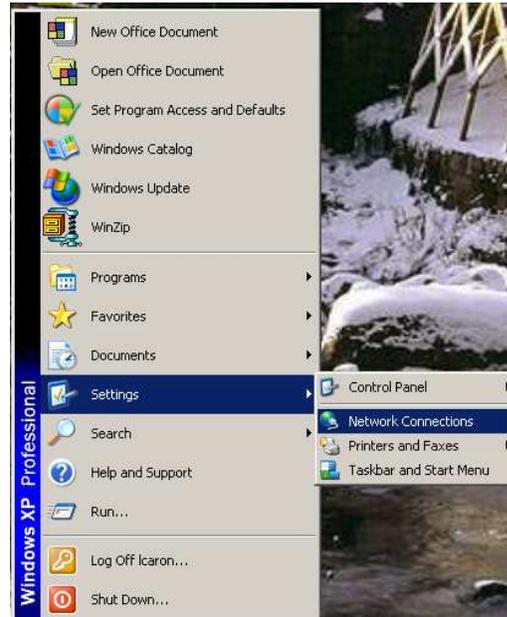
Step 8

Restart your system if prompted.

14.2 If your computer is running Windows XP

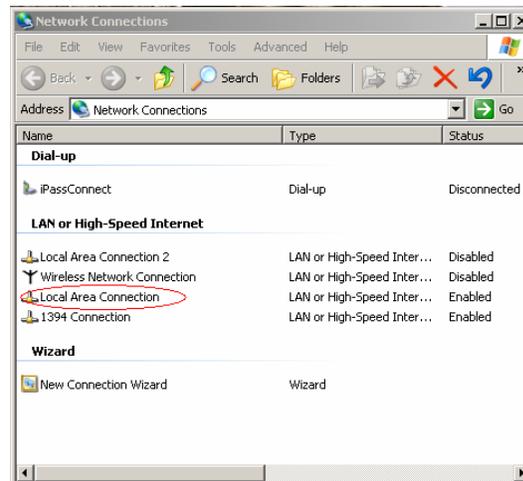
Step 3

In the Main menu, select "Settings" and "Network Connections".



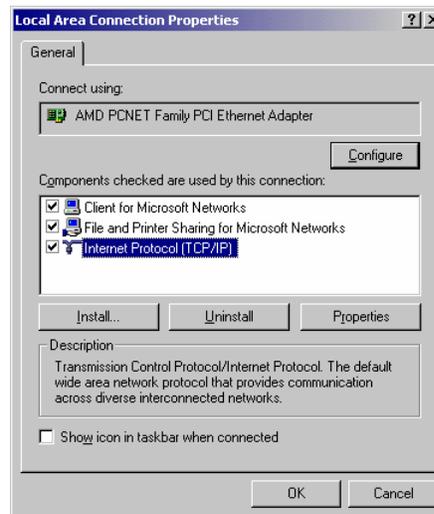
Step 4

Right click the "Local Area Connection" icon and select "Properties".



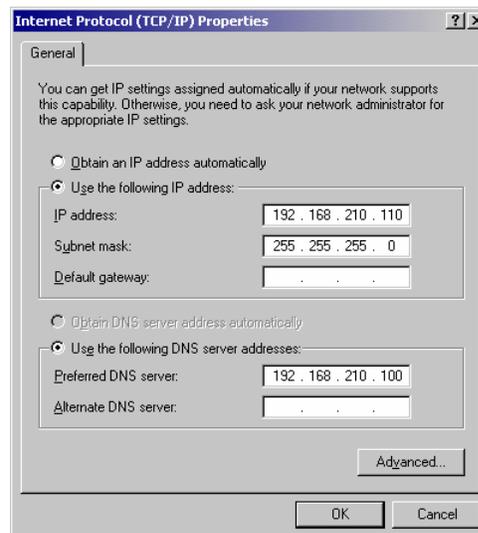
Step 5

Click on Internet Protocol (TCP/IP) and click "Properties".



Step 6

Enter an IP address that is in the same range as the Kaleido-K2 then click OK.



Step 7

Click OK in Local Area Connection Properties box.

Step 8

Restart your system if prompted.