



Please read this notice carefully before performing an installation or upgrade

Kaleido version 5.40 Maintenance Release 2 (MR2)

Your Kaleido-K2 hardware may be configured to run an earlier version of the Kaleido Software (V4.Xx, V5.0x, V5.1x, V5.2x or V5.3x). This Maintenance Release fixes issues that will improve the capabilities of the Kaleido K2 system and KEdit application.

Note: Both KEdit and Kaleido software must be at the same Version and Build number to operate properly. If KEdit and Kaleido versions are different, some exceptions or errors may occur.

The Kaleido 5.40 MR2 can only be installed on Kaleido K2 systems or client PCs (KEdit PC) running version 5.40.

Kaleido Software V5.40 MR2 is compatible with the following devices/versions:

iControl Application Server 2.7x and 3.0x

iControl optional TSL service 2.15 or higher.

iControl optional Encoda service 1.05 or higher.

iControl optional Thomson-Andromeda service 2.02 or higher.

iControl optional Kalypso service 1.01 or higher.

iControl Services Gateway 1.13 or higher. (See limitations in the known issues section)

Miranda optional SerialToEthernetDispatcher service 1.00 or higher.

Miranda Allegro 1 streaming encoder 1.00 or higher.

Hardware cards and firmware versions shipped with this release:

Card Type	Package number	Hardware Revision
Audio Digital (MWI-AES)	0009h	100
Audio Analog (MWI-SA)	0008h	100
Video HD (MWI-HD)	002Dh	200, 300*
Video HDX (MWI-HDX)	0050h	301
Video HDX2 (MWI-HDX), RM-102T	0051h	302
Video SDI (MWI-SDI)	001Eh	200, 400
Video Analog (MWI-CVBS)	0015h	300
Video VGA (MWI-VGA)	000Ah	300
Output Mez (MWO-SDM)	0006h	200
Output Mez (MWO-HDM)	0006h	200
Output (MWO-HR)	000Dh	400, 500
Output (MWO-HR2)	000Fh	501
Companion (MWA-CPU)	0027h	ALL except 200**
Genlock (CPU-GL)	0006h	100

* The MWI-HD card doesn't support all the features found in the MWI-HDX card.

** The companion card version 200 doesn't support custom resolutions.

Maintenance Release 2 (MR2) fixes and improvements for version 5.40

IMPROVEMENTS:

- (B13616) SNMP Filtering settings from the KEdit.
It is now possible for the user to decide witch SNMP traps will be sent or not by the Kaleido K2 to the SNMP manager.
- (B13682) Custom video Cropping support
It is now possible for the customer to crop video displayed on the Kaleido K2 Monitor wall.
- (B8949) XDS data through the XML gateway API
XDS data can now be retrieved by third party applications via a new XML command.
The new *getKMetaData* command will now return the data configured in a Multidata component.

FIXES:

- (B5822) The sound player doesn't play the last second of a wave file.
The software has been modified to play the entire wave file.
- (B13335) Closed Captioning text displayed on line 0 in rollup mode.
In some case, the text position of the CC text is not encoded properly. The Kaleido application displayed this text on line 0 by default. The software has been modified to display the CC text at the last known position instead of line 0.
- (B13473) U.S. VCHIP not decoded properly
The XDS parsing engine has been modified to fix this issue.
- (B9094) Embedded audio (HDX card) issue at monitoring output when switched at the input.
The audio embedded feed to the HDX card had a problem when the signal source was switched at the input. The audio was muted or had noise incorporated with the signal.
Physically removing the BNC connector and reinserting would re-establish proper audio monitoring or switching the input would also re-establish proper monitoring.
The algorithm has been changed to fix this issue.
- (B11898) AFD data not decoded properly from HDX, HDX2 and SDI cards.
The algorithm has been changed to fix this issue.
- (B13854) Legacy 608 presence detection is not working properly on HDX and HDX2 cards
The algorithm has been changed to fix this issue.
- (B4639) SD input not managed properly by HDX and HDX2 cards.
With a 625 signal on SD input of the HDX and HDX2, video was truncated from the bottom when Vbit was encoded on line 6 instead of line 23.
New algorithm improved the Vbit detection.
- (B13955) KEdit refused to start when the network was disconnected.
The algorithm has been changed to fix this issue
- (B13978) The "closeID" gateway command didn't send an "ack" response.
The algorithm has been changed to fix this issue.

Maintenance Release 1 (MR1) fixes for version 5.40

- (B12230) It is not possible to configure the audio alarm thresholds as relative to the standard operation level.
The alarm configuration panels now allow relative and absolute values.
- (B12229) The audio meter level jitters when the input is constant.
The software has been modified to fix this issue.
- (B12228) For analog inputs, the 0VU calibration is done by increments of 6 instead of 1.
It is now possible to calibrate the 0VU by increments of 1.
- (B10838) The audio inputs, calibrated to operate at a very low level, display low values instead of none when there is a silence, even if no signal is connected.
The software has been modified to fix this issue.
- (B10836) Digital Peak Meter - Nordic PPM (IEC60268-10 type I) always shows the presence of audio even when no audio source is connected to K2.
The audio scale has been modified to fix this issue.
- (B11637) Timeout on XDS data.
The software has been modified to erase XDS data if not refreshed for a configurable period of time.
- (B11642) The XDS data field station ID shows only the first 4 characters instead of all 6 characters.
The software has been modified to fix this issue.
- (B11717) K2 MWI-HDX Not Displaying SD Correctly
New pac versions have been generated for the HDX and HDX2 cards.
HDX_prod_pack004A.pac
HDX2_prod_pack004B.pac

Kaleido Inter-Connection

Connection of the Kaleido-K2 with a HUB creates malfunctions of the system. Hubs operate in half-duplex and can generate collisions between Ethernet packets. If your Kaleido-K2 is connected to a HUB, you may notice system CPU and memory increasing while controlling the Kaleido-K2 via the KEdit software.

Utilization of an Ethernet switch with all ports communicating in auto-negotiate mode with the Kaleido-K2 and KEdit is strongly suggested.

Antivirus

Miranda has tested two antivirus software packages that could be installed on the Kaleido-K2 system.

- Symantec Norton Antivirus
- McAfee VirusScan

When these antiviruses are running, the Kaleido-K2 system operates properly. We notice a longer boot up time (2 minutes) when antivirus is installed. We didn't test the system reaction when the antivirus live-updates its virus definition. The Kaleido application MAY slow down at antivirus definition update.

Layout capacity example using streaming video inputs

Layout Composition	Frame Per Second	Encoding Type	Streaming Size (Encoder side)	Bit Rate (Kb/s) (~Optimal Quality)	No. of Streams per Layout
Small Layout Example 8 video inputs(2 cards in frame) * 8 audio inputs (1 card in frame) 8 UMDs (static) 1 analog clock 1 digital clock * All the inputs have valid video with Closed Caption text to decode, NOT displayed.	5	MVC1 (H263)	176 x 144	27	13
			352 x 288	108	2
		MVC2 (JPeg)	80 x 64	46	15
			176 x 144	68	9
	10	MVC1 (H263)	352 x 288	142	3
			176 x 144	49	7
		MVC2 (JPeg)	352 x 288	186	1
			80 x 64	94	8
	15	MVC1 (H263)	176 x 144	135	5
			352 x 288	276	1
		MVC2 (JPeg)	176 x 144	73	4
			352 x 288	285	0
	10	MVC1 (H263)	80 x 64	140	6
			176 x 144	203	3
		MVC2 (JPeg)	352 x 288	413	1
			176 x 144	27	11
Medium Layout Example 16 video inputs (4 cards in frame) * 16 audio inputs (1 card in frame) 16 UMDs (static) 1 analog clock 1 digital clock * All the inputs have valid video with Closed Caption text to decode, NOT displayed.	5	MVC1 (H263)	176 x 144	27	11
			352 x 288	108	2
		MVC2 (JPeg)	80 x 64	46	14
			176 x 144	68	8
	10	MVC1 (H263)	352 x 288	142	3
			176 x 144	49	6
		MVC2 (JPeg)	352 x 288	186	1
			80 x 64	94	9
	15	MVC1 (H263)	176 x 144	135	5
			352 x 288	276	1
		MVC2 (JPeg)	176 x 144	73	5
			352 x 288	285	1
	10	MVC1 (H263)	80 x 64	140	6
			176 x 144	203	3
		MVC2 (JPeg)	352 x 288	413	1
			176 x 144	27	5
Large Layout Example 32 video inputs (8 cards in frame) * 32 audio inputs (1 card in frame) 32 UMDs (static) 1 analog clock 1 digital clock * All the inputs have valid video with Closed Caption text to decode, NOT displayed.	5	MVC1 (H263)	176 x 144	27	5
			352 x 288	108	1
		MVC2 (JPeg)	80 x 64	46	4
			176 x 144	68	2
	10	MVC1 (H263)	352 x 288	142	1
			176 x 144	49	3
		MVC2 (JPeg)	352 x 288	186	0
			80 x 64	94	3
	15	MVC1 (H263)	176 x 144	135	1
			352 x 288	276	0
		MVC2 (JPeg)	176 x 144	73	2
			352 x 288	285	0
	10	MVC1 (H263)	80 x 64	140	2
			176 x 144	203	0
		MVC2 (JPeg)	352 x 288	413	0
			176 x 144	27	5

This table illustrates the theoretical limitation of the layout composition when using Streaming video playback. The limitation becomes a factor because each element included in a typical layout requires a certain amount of CPU power. These tests have been made using the Miranda Allegro Streaming Encoder and with the streaming size on the player at native size.

Other elements that may influence the payload of your layout:

Using Close Captioning Text Overlay on each video impacts your performance by two. Additional dynamic text or graphical elements will also gradually reduce the performance. Resizing Steaming video larger or smaller may impact the quality and the performance slightly. Each additional card in the Kaleido-K2 requires CPU processing even though the signal is not displayed in the layout.

Frequently Asked Questions (FAQ)

Q. Kaleido cannot find the layout I am trying to load.

A. For iControl Gateway support, all the layouts must be located in the ..\Startup\KALEIDO LAYOUTS folder.

Q. What are the various display resolutions supported by the Kaleido K2? And how do I set that?

A. K2 hardware supports a wide range of resolutions output timings:

To change the Kaleido-K2 output resolution you must use the Kaleido Layout Editor (KEdit), go to the View\Settings\Kaleido Calibration menu and select the desired resolution from the list.

The following table illustrates the display model and manufacturer Miranda used to create and qualify Kaleido K2 resolutions. If your display is not listed in this table, it **does not** mean it is not supported, it just means we didn't test the resolution with your display model. Miranda recommends applying the factory resolutions to your display via the KEdit or using other display resolution to feed your screen. See the Kaleido User's Manual or KEdit online help for more details about resolutions.

If none of the resolutions delivered with the Kaleido is able to sync on your displays, **it is possible** for Miranda to create a new one. Miranda will need **all the timings** of your display in order to create it.

Manufacturer	Model	Resolution	Refresh Rate (Hz)	Factory*	ATI	nVidia (ASUS)	Matrox Single	Matrox** Dual	MWO-SDM or MWO-HDM cards
Clarity	Baycat	1920x1080	50, 60	Yes	No	No	Yes	Yes	50Hz Yes 60Hz No
Clarity	Bobcat X	1366x768	60	Yes	No	No	Yes	Yes	Yes
Clarity	Margay	1280x720	50***, 60	Yes	No	No	Yes	Yes	Yes
Barco	Overview DR	1280x1024	50***, 60	No	No	No	Yes	Yes	No
Barco	Overview DR+	1400x1050	50, 60	No	No	No	Yes	Yes	Yes
Christie	DS25	1400x1050	50, 60	Yes	No	Yes	Yes	Yes	Yes
RCA	Rear Projection TV	720x480	60	No	No	No	Yes	Yes	Under test
Panasonic	TH-42PHD6	1024x768	60	No	No	No	Yes	Yes	Yes
Panasonic	TH-50PHD6	1366x768	60	No	No	No	Yes	Yes	Yes
Sharp	LC-65G5M	1920x1080	60	No	No	No	Yes	Yes	Yes
Sony	Qualia 004	1920x1080	60	No	No	No	Yes	Yes	Yes
Sony	SDM-P232W	1920x1200	60	No	No	No	Yes	Yes	No
Sanyo	PLV-Z4	1280x720	50, 60	Yes	No	No	Yes	Yes	Yes
VESA		800X600	50, 60	Yes	Yes	Yes	Yes	Yes	No
VESA		1024X768	50, 60	Yes	Yes	Yes	Yes	Yes	Yes
VESA		1280X1024	50, 60	Yes	Yes	Yes	Yes	Yes	Yes
VESA		1600X1200	50, 60	Yes	Yes	Yes	Yes	Yes	Yes
Generic		1280x768	50,60	Yes	Yes	Yes	Yes	Yes	Yes
Generic		1360x768	50, 60	Yes	Yes	Yes	Yes	Yes	Yes
Technovision		1280x960	60	No	No	Yes	No	No	Under test

* Indicates factory default resolution. Those resolution files are directly in the c:\iControl\Startup\resolution and c:\iControl\Startup\resolution\Factory folders on the Kaleido.

** When "Yes" is present under Matrox Dual column, DUAL-HEAD resolution exists!

*** Untested

Miranda will supply upgrade files for support of other resolutions and refresh rates at a later date.

Q. My monitor screen flashes while running Kaleido Layout Editor. What's wrong?

A. The screen refresh rate may not be set to 60 Hz.

Q. How do I quit the Kaleido application?

A. Press CTRL-Q to exit the application.

Q. How do I use the monitor browser panel to insert pre-set monitors into the layout, or save copies of monitors I've modified?

A. Open the Monitor Browser panel (press F6) and scroll through the list until the monitor you wish to use is shown in the preview window. Click on the preview and drag a copy into the layout. If you have modified a monitor and wish to save a copy, hold CTRL and drag the monitor onto the list window of the monitor browser. A dialog box will appear which allows you to name the monitor, and it will be added to the list. You can delete the old version (select it and press DELETE) if you wish.

Q. What are the Dynamic Text settings in the UMD and Text Label configuration panels?

A. 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 Under Monitor Display System Controller. This device would typically be operated using Miranda's iControl system. To obtain the text information to insert dynamically into the Kaleido display, you must enter the MirandaLongID corresponding to the service to which you wish to connect. You can find it using the iNavigator application, which is part of iControl. Another way to do this is to create an alias, which can be done in the KG2Config.xml file: enter an alias and the corresponding MirandaLongID of the service. You could create an alias for each service you use. Once this is done, you need enter only the alias in the ServiceID window of the Text Label or UMD configuration panel.

Known Issues and limitations

Limitation:

- You cannot display a background or logo image larger than 2048x2048 pixels.
- You cannot display a UMD or Text Label larger than 2048 pixels.
- Pre-emphasis of an AES inputs is not supported.
- Legacy is not supported for the count down timer with this version
- Any count down timer created in an earlier version that does not have a defined ID value (i.e. the Timer ID box in the Configuration panel was left blank) will be ignored when the layout is opened in this version (5.30).

Selection of output resolution

Problem:

Assigning a “Channel” to a “Monitor” at the creation of a layout causes the monitor to break apart.

Workaround:

Do not use the metric values when you enter the measurement values in the layout configuration.

Problem:

Changing the Kaleido-K2 resolution, via the KEdit client may cause the Kaleido system to stop operating.

Workaround:

After changing the Kaleido-K2 resolution, reboot the Kaleido-K2 system.

(B856) CTRL-Q command can cause a the Kaleido-K2 system reboot

Problem:

When pressing CTRL-Q on the Kaleido-K2 to exit the software application, the system reboots. The new Parhelia graphic driver makes a Windows 2000 exception.

Workaround:

Use the Task manager to quit the application.

(B1344) Hot swapping an HD card

Problem:

After reinserting an MWI-HD card in the Kaleido-K2 system, you may observe jerky images

Workaround:

Restart the Kaleido-K2 application.

(B674, B1666) Phase meter seems to display incorrect phase detection

Problem:

Use of pre-emphasis AES is not supported by the Kaleido application. Some audio meters MAY display wrong information. The Kaleido doesn't do de-emphasis.

Workaround:

Do not use pre-emphasis AES input.

(B1693) 1024X768 (50 and 60 Hz) cropped around 10 video pixels at boot time**Problem:**

If the Kaleido system is using 1024x768 resolution, all the video displayed at boot time will be cropped by around 10 pixels on the left. This will happen at 50 and 60 Hz frequency. The phenomenon is visible on the slave MWO-HR module. The complete video frame will be displayed at the end of the boot up process.

Answer:

None. Miranda still investigating the problem and will provide a Bug Fix as soon as we find the solution.

(B2298) The MT_Gateway Windows service doesn't display the correct status**Problem:**

The Kaleido software internally supports the same XML API of the MT_Gateway and connects to the same TCP/IP port (13000). The MT_Gateway is then not able to open the port 13000 and this exception is not reported to the Windows service Manager

Workaround:

The MT_Gateway startup mode must be set to "disable" or "manual" when "Internal gateway" is running. See the user's manual for configuration options.

(B2712) Kaleido seems not to be responding to the iControl GSM server**Problem:**

Starting more than one Kaleido GSM plug-in for the same Kaleido on the GSM server would create an overload on the server and may cause an interruption of communication. Timeouts will be received by all the Kaleido GSM plug-ins.

Workaround:

Make sure that only one Kaleido GSM plug-in has been started per Kaleido K2 system.

(B2808) Teletext subtitling problem**Problem:**

Switching the system decoding standard from the North American Standard (EIA 608) to the Teletext standard (EST-EST 300 706) will not be applied immediately.

Workaround:

Kaleido application must be restarted: Quit (Ctrl-Q) the Kaleido application and double click on the Kaleido icon shortcut located on the Desktop to restart the application.

(B2910) KEdit online help generates java exception when being launched from the KEdit help menu**Problem:**

The KEdit online help will generate a Java exception if Java version 1.4.2 was installed on your KEdit PC.

Workaround:

Uninstall Java version 1.4.2 from the PC where you install the KEdit, or, when the exception pops up, click NO on the dialog box requesting debugging information.

(B2926) UMD component is not displayed nicely

Problem:

When using a gray or lighter background, you may notice some black pixels around the Black UMD component. This is due to the bevel effect of the UMD fading from black to gray on the edges.

Workaround:

You can use a darker background which will hide the pixel effect. You can change the black UMD component for a dark gray component or you can use the Text Label component instead.

(B2970) After rebooting the Kaleido, the resolution won't change

Problem:

When rebooting the Kaleido after changing the output resolution, the Kaleido system may return to its default resolution 1024x768.

Workaround:

Instead of a hard shutdown, use the <ctrl> + Q command to quit the Kaleido application, and then restart the Kaleido-K2 system.

(B2971) Live update incident when installing a new Kaleido software version

Problem:

It MAY happen, when updating your Kaleido-K2 hardware (i.e. when installing the new version of Kaleido) that you'll have to reboot two times to get your system running correctly.

If your system contains older versions of hardware modules, the live update will require two passes to complete the live up-date.

Workaround:

The card is not completely out of function, power-off the Kaleido-K2 and restart it again, all the cards will respond properly.

(B2973) KEdit sub panels fail while changing Kaleido Layout

Problem:

When you operate the KEdit on-line with the Kaleido and a sub-panel of the inspector is open, like the Audio meter\Appearance\advanced panel, changing the layout of the Kaleido will make the advanced panel not functional.

Workaround:

Close the advanced panel with the Cancel button and open it again.

(B2974) UMD transparency problem

Problem:

If a text or a UMD component with colored background (red, yellow...) uses the transparency feature, the text inside the component may be displayed with some aliasing.

Workaround:

Setting the background color to invisible or to a dark color will minimize the problem. Using a larger UMD or text component may minimize the aliasing.

(B3071) Conflict between 1920x1080@50Hz and 1600x1200@50-60Hz resolutions

Problem:

The system cannot switch from resolution 1920x1080@50Hz to resolution 1600x1200@50-60Hz

Workaround:

Switch from actual resolution 1920x1080@50Hz to alternate resolution 1360x768@50Hz (or 1280x768@50Hz or 1360x768@60Hz or 1280x768@60Hz)

Now switch to the desired resolution 1600x1200@50Hz (or 1600x1200@60Hz)

(B3911) Pulling out the CPU module in live operation may interrupt the video wall display

Problem:

The output module cannot detect a physical extraction of the CPU assembly; video display may be affected in this case.

Workaround:

You should simply power the system off before pulling out the CPU assembly. In this case, the video will be displayed properly.

(B5869) Audio Streaming is muted when modifying online audio meter properties.

Problem:

If the user modifies an audio meter's properties using KEdit in online mode while monitoring an audio stream, the audio streaming will be muted.

Workaround:

Double-click the apply button in the audio meter configuration panel to reactivate audio streaming.

(B6308) KEdit on a Windows XP desktop - some of the GUI components are not displayed properly.

Problem:

When running the KEdit on a Windows XP desktop, some of the panels are not displayed properly.

Workaround 1:

1. Right click on the Windows XP desktop
2. Choose "Properties" to open the Display Properties window
3. Click on the "Appearance" tab.
4. Select "Windows Classic style" from the *Windows and buttons* "pull down" menu

Workaround 2:

1. Right click on the Windows XP desktop
2. Choose "Properties" to open the display's Properties window
3. Click on the "Appearance" tab.
4. Click on the "Advanced" button
5. Use the "Item" pull down to select the following items, and then set the Item Size, Font and Font Size as shown in the table:

item	size	font	Font size
Active Title Bar	18	Tahoma	10
Caption Buttons	18	N/A	N/A
Inactive Title Bar	18	Tahoma	10
Menu	18	Tahoma	8
Message Box	N/A	Tahoma	8
Palette Title	15	Tahoma	8
Selected Items	18	Tahoma	8

Residual Problems:

After **workaround 2** is implemented, the following problems remain for KEdit versions 5.20, 5.21 and 5.22 on Windows XP:

- Color preview Palette doesn't show all colors
- The "Save as default monitor" button in the *Monitor* Panel will not be displayed.

(B8282) K2 Genlock format and output card graphic display missing

Problem:

If the output card is operating normally and the genlock input is changed to a different frame rate (e.g. from 60 Hz to 50 Hz) format, the graphic elements of the output are lost, and only the video is displayed.

Workaround:

Make sure the output card is set to operate at the same frame rate as the reference input signal

(B8282) 0VU calibration

Problem:

Broken legacy caused by the new 0VU calibration settings

The changes made to audio level control (0VU calibration) in version 5.40 will modify the current audio settings of your system. Specifically, the level settings (Input Trim) for analog audio input signals will be lost after the installation of Kaleido version 5.40.

Workaround:

The levels were previously set using the Input Trim slider in the Appearance tab of the audio meter control panel. The slider has been removed from that panel, and replaced with controls on a new "Calibration" tab. Once you have upgraded your Kaleido system with version 5.40, you must access the new tab and manually reset the levels using the new controls.

(B9643) Teletext line overflow

Problem:

If the monitor size is the smallest possible and there is some teletext on the last 4 rows (or more), then the text will overflow below the monitor.

Workaround:

Slightly increase the size of the monitor.

(B11816) Relative audio alarm levels are not updated if the OVU value changes

Problem:

The audio alarm levels are stored as absolute values. When an alarm level is configured as relative, the absolute value is computed given the current OVU configuration and stored as an absolute value. If the OVU value is changed afterward, the relative alarms levels are not adjusted consequently.

Workaround:

Set the OVU value before configuring the alarms. If you need to change the OVU value afterward, open all the audio alarm calibration panels and reconfigure them manually.

Miranda Technical Support

If you have any questions or detect erratic behavior, please contact Miranda's technical support department by phone at (514) 333-1772 or by email at techsupp@miranda.com